iRobot: The Robot Company

iRobot designs and builds robots that make a difference on the land and in the water. Founded in 1990, iRobot has two decades of experience at the forefront of the global robot industry.

iRobot’s defense and security robots provide enhanced situational awareness, reduce risk and increase mission success.

As a leader in the global robot industry, iRobot remains committed to providing platforms for invention and discovery, developing key partnerships to foster technological exploration and building robots that improve the quality of life and safety standards worldwide.
iRobot offers a complete line of accessories for the iRobot PackBot. Each accessory adds new capabilities to the robot, expanding its range and scope of missions.

More than 3,500 iRobot PackBot robots have been delivered to military and civil defense forces worldwide. From bomb disposal and checkpoint inspections to reconnaissance and route clearance, PackBot is a versatile and adaptable robot capable of performing a range of missions.

Additional spare parts are also available.

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.776.2687. International customers, call +1.781.430.3090.

For support, contact iRobot at packbot-support@irobot.com or 781.430.3030.
Upgrade Your **PackBot**

**Make your robot faster, stronger and easier to use...**

**Update your robot with the latest hardware and software...**

**Increase your robot’s mission capabilities...**

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**Upgrade Highlights**

**User-Assist Package (UAP)**

The UAP enables a variety of semi-autonomous robot functionality that expands the types of missions the Robot PackBot can perform and improves situational awareness for the robot operator.

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**Robot capabilities**

The UAP adds critical semi-autonomous capabilities to PackBot:

- **Retro-traverse**
  If communications are disrupted, the robot automatically retraces its approach path to restore them.

- **Self-righting**
  If the robot is flipped over, it automatically rights itself and continues the mission.

- **Heading hold**
  The robot maintains a constant heading set by the operator, automatically adjusting for bumps, debris and other obstacles.

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**OCU capabilities**

The UAP includes operational improvements for the Operator Control Unit (OCU):

- **GPS mapping**
  The OCU displays a satellite image of the robot’s location and travel path, including stand-off distance, current GPS position and points of interest indicated by the robot operator.

- **Custom poses**
  The operator can create, name and save manipulator arm poses in the OCU and use them on subsequent missions at the touch of a button.

- **Gripper force meter**
  An OCU icon shows the relative gripping force, helping the operator determine that the robot has successfully grasped an object of interest.

- **Precise positioning**
  The operator can move the robot’s gripper and camera head in a smooth, natural and continuous motion.

- **Keyboard shortcuts**
  The operator has the option to control the robot using keyboard shortcuts on the OCU, instead of the hand controller, for faster operations.

- **Image capture**
  The operator can save high-resolution images from video feeds and screenshots on the OCU for post-mission analysis.
**Robot Arms**

**Manipulator 1.0 (B10 3-Link Arm)**

Equipped with a 312x zoom camera with both white and infrared lights at the end of the manipulator arm, the robot can inspect heights up to 90 in (228.6 cm) while using chassis flippers. Gripper has lifting capacity of 10 pounds (4.5 kg) through the full range of motion and 30 pounds (13.6 kg) with arm in compact position. Dexterity enough to pick up very small objects and grip and turn doorknobs. Adjustable turret camera provides wide-angle views in multiple directions. Manipulator has 9 independent degrees of freedom: Shoulder Pivot (220º), Shoulder Rotation (360º Continuous), Elbow 1 Pivot (340º), Elbow 2 Pivot (340º), Gripper Rotation (360º Continuous), Gripper Open and Close (180º), Head Rotation/Pan (360º Continuous) and Head Tilt (220º). Head is equipped with the QuickClamp Fireset with Accessory Connector that supports multiple accessories. Includes binding posts for fireset support.

Part # 18051

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**Camera Arm (CAM)**

312x zoom camera with white and infrared lights provides close-up video that enables fast, precise and safe inspection at heights up to 48 in (121.9 cm) while using chassis flippers. Camera arm extends 14.5 in (36.8 cm) from back of chassis with 3 degrees of freedom: Shoulder Pivot (220º), Head Rotation/Pan (360º Continuous) and Head Tilt (220º). Camera automatically follows gripper on manipulator to help with situational awareness while manipulating objects. Head can be equipped with an accessory port that supports multiple accessories. Optional fireset support.

Part # 19129

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**Small Arm Manipulator (SAM)**

Designed for interrogation, inspection and manipulation, manipulator has lifting capacity of 5 pounds (2.26 kg) through the full range of motion and 15 pounds (6.8 kg) with arm in compact position. Manipulator extends 34.5 in (87.8 cm) from back of chassis and reaches a height of 42 in (106.6 cm) with a horizontal reach of 11 in (27.9 cm) beyond robot (with SAM elbow at 90º, while using chassis flippers). The manipulator reaches a maximum height of 62 in (157.5 cm) with no horizontal reach beyond robot (with SAM fully extended upward, while using chassis flippers). This “in plane” 2-link arm has 4 degrees of freedom: Shoulder Pivot (220º), Elbow Pivot (340º), Gripper Rotation (360º Continuous) and Gripper Open and Close (180º). The SAM includes a fixed-focus color camera that provides situational awareness while driving the robot and increased visibility during manipulation tasks.

Part # 19128

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**Fir Fido® Explosives Detection Kit**

Add remote explosives detection capability to PackBot to protect personnel. Sensor employs ultra-sensitive vapor detection. Sensor data is relayed to the PCC or OCU in visual and audio formats. Fido sensor can be removed and used for hand held detection purposes. Kit includes pylon-to-robot adapter. Compatible with 26-Pin Fido Configuration. Additional software may be required.

Part # 19479

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**LWIR Thermal Camera Kit**

Compact, lightweight camera features large field of view and provides increased situational awareness. Close-to-medium range detection and identification in fog, smoke, low light and no light. Additional software may be required.

Part # 4262966

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**Dual Accessory Port Payload Adapter (DAPPA)**

The DAPPA converts a standard PackBot payload port into two usable accessory ports that accommodate many PackBot Accessories.

Part # 4340553K

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**Enhanced Awareness Payload (EAP)**

The EAP features a wide-angle drive camera, two-way audio, white and infrared illumination and an accessory port. Mounts in front bay of 510 PackBot. Additional software may be required.

Part # 4207006

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**Robot Accessories**

**Robot Wide-Angle Robot Vehicle Vision System (WARVVS)**

This compact, lightweight camera provides a wide-angle view (approximately 180º horizontal field), which increases situational awareness for constrained driving conditions and improves downrange maneuvering.

Part # 4296598

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For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.778.2687. International customers, call +1(781) 430.3090.
User-Assist Package (UAP)

The UAP enables a variety of semi-autonomous robot functionality that expands the types of missions the PackBot can perform and improves situational awareness for the robot operator.

Retro- Traverse

If communications are disrupted, the robot automatically retraces its approach path to restore them.

Self-Righting

If the robot is flipped over, it automatically rights itself and continues the mission.

Heading Hold

The robot maintains a constant heading set by the operator, automatically adjusting for bumps, debris and other obstacles.

The UAP payload can be mounted on a DAPPA (Part # 4340553K).

(Requires iRobot® Aware 2 robot intelligence software, Version 5 or later.)

Part # 4311711K

HazMat Kit

Add hazardous materials detection to your PackBot. Multiple integrated sensors provide TIC, TIM, Blood Blister, VOC, Radiological and Temperature/Humidity detection and reporting. Includes MultiRAE® sensor, LCD sensor, Radiac sensor, calibration accessories and extra filter packs for MultiRAE, sieve packs, confidence tester, battery cassette for LCD, Dual Accessory Port Payload Adapter (DAPPA) with Temperature/Humidity sensor, sealed hard case for sensors and accessories, rugged shipping cases, user manual and documentation and Aware® 2 software license. Additional hardware and software upgrade may be required.

Part # 4185339

Canberra Radiac

The Canberra Radiac is suitable for both tactical and non-tactical radiation detection. Supported Canberra Radiac models include the AN/UDR-13 (Part # 4323015), AN/UDR-14 (Part # 4323016), AN/UDR-15 (Part # 4291941) and UltraRadiac Plus (Part # 4323020).

The AN/UDR-13 and AN/UDR-14 measure radiation in grays. AN/UDR-15 (4291941) measures radiation in roentgens. UltraRadiac Plus measures radiation in sieverts. (Requires iRobot® Aware 2 robot intelligence software, Version 5 or later.)

Part # 4313529K

IR Radiac Kit

Enables pocket-sized Canberra Radiac sensors to be mounted on PackBot.

Part # 4313529K
Head-Mounted Hook
Allows PackBot to move objects at the height of the head (up to 90 in (228.6 cm)) when using flippers. Ideal for opening overhead bins on buses, trains and airplanes. Quickly attaches to the QuickClamp Accessory Mount, providing a second mount for other compatible accessories. Includes three manipulators: hook, probe and customizable probe.
Part # 19368

M3X Tactical Illuminator Flashlight with X-Series Flip-Up Filter
Increases low-light performance of robot. Provides peak output of 125+ lumens. Includes the X-Series Flip-Up Filter (infrared), which fits over the front assembly. Lithium battery provides approximately one hour of run time. Mounts to the robot using the QuickClamp Picatinny Rail Kit (15088) or Picatinny Rail Tube Mount Kit (15089) (sold separately.)
Part # 19478

Payload Port Alignment Insert (PAI) Kit
Ensures mechanical alignment of a payload with the payload port during installation, to prevent damage. The PAI interfaces with all PackBot payloads. Kit includes 25 PAIs.
Part # 4221562

Composite Window for Low Light Upgrade Kit
Window upgrade improves low-light camera performance when operating with lights on. Ensures integrated light reflects that blocks light refraction in the window to eliminate camera washout. Upgrade recommended for PackBot EOD.
Part # 18105 (for PackBot EOD)
Part # 19168 (for Manipulator 1.0)

Head-Mounted Infrared Illuminator
Increases low-light performance of robot. Continuously adjustable beam is 100% eye safe, tested class 1. Shockproof and splash water resistant. Usable with all night vision generations, even digital systems. Lithium battery provides approximately three hours of run time. Mounts to the free side of the head using an adjustable holder. Sold directly from European Logistics Partners (ELP GmbH) and warranty information is provided by the manufacturer. Visit www.elp-gmbh.de

Part # 4194767
Robot Accessories

PackBot Blast Shield with Clutch Upgrade Kit
Upgrade the blast shield of your Manipulator 1.0 (510 3-Link Arm). Improved clutch design provides longer product life.
Part # 18215

Mechanical Cable Cutter
Designed for cutting cable, this tool quickly attaches to the gripper finger base plates. Features a wire guide for capturing the wire. Cuts insulated copper cable up to a thickness of 2.5 mm. Fully mechanical tool, does not require any modifications to the robot. Sold directly from ELP. Warranty and compatibility information provided by the manufacturer. Visit www.elp-gmbh.de
Part # 18287

Replacement PackBot Rounded Flipper Track
Streamlined tracks with rounded cleats minimize detracking and optical fiber entanglement while delivering maneuverability through rough and varied terrain. Includes two tracks; sold as a pair. (Replacement Main PackBot Track sold separately.)
Part # 18287

Replacement Main PackBot Rounded Track
Streamlined tracks with rounded cleats minimize detracking and optical fiber entanglement while delivering maneuverability through rough and varied terrain. Includes two tracks; sold as a pair. (Replacement Flipper Track sold separately.)
Part # 18285

Ordnance Lift Kit
Supports multiple tools that mount at rear of PackBot. It has a large lift capacity handling ordnance up to 155 mm shells weighing about 100 lbs (45 kg). Uses robot flippers to power implements up and down. Attaches and detaches in seconds without the use of tools. Ordnance Lift Kit can be moved in 22.5º increments. Implements attach and detach without the use of tools. Disassembles for compact storage space. Includes four repositionable “Ordnance Tine” implementations. Requires Flipper Drill Guide Kit (13656) if flippers are not pre-drilled.
Part # 12894
Flipper Drill Guide Kit
Part # 13656

Route Clearance Tool Kit
Tools include a rake, scoop, mine fork, probe and hook for digging, probing and identifying buried obstacles. Tools mount to the Flipper Tool Bar Kit (12881) and Ordnance Lift Kit (12844). (Both sold separately.)
Part # 19418

Adaptive Specialty Probe™ Tool Kit for 510 PackBot and 310 SUDV
Includes four specialty tools to help warfighters and first responders investigate and dispose of potential hazards. The Viper Multi Purpose Tool pierces many materials, cuts wires and entraps and removes obstructions, providing greater visibility during interrogation. The Cobra Rake moves debris and other material, allowing the operator to remotely move a potential hazard. The Adder Hook scrapes and removes concealed material. The Sidewinder Probe scrapes and entraps buried wiring, providing a location for wire to be spooled around the tool. Tools are easily attached and removed. Includes gripper mounts and storage case.
Part # 43020306

Other Robot Accessories Available
- X-ray generator, mounts and imaging solutions
- Mounds for electronic jammer systems
- Hook and line attachments and applications
Order items directly from ELP at www.elp-gmbh.de.

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.776.2687.
International customers, call +(1) 781.430.3090.
ONE ROBOT, UNLIMITED POSSIBILITIES

510 PackBot is a modular, multi-mission robot. Powered by iRobot® Aware® 2 robot intelligence software, the robot’s digital architecture accommodates a wide variety of interchangeable payloads that enable multiple missions. 510 PackBot is quickly configured based on the needs of the mission and easily adapts to the ever-changing requirements of bomb identification and other life-threatening missions.

For more information about 510 PackBot, contact iRobot by e-mail at sales@irobot.com.
Mounts and Disrupters

Mounts and Disrupters

Proparms 12.5 mm Recoilless Disrupter Mount
Modular clamp system attaches at QuickClamp Accessory Mount to support the Proparms 12.5 mm Recoilless Disrupter. This mount attaches and removes from clamp in seconds. Order Proparms disrupters directly from www.proparms.com
Part # 14063

PeraDis® .45 Caliber Recoilless Water Disrupter
Initiated by a spring loaded firing pin, unlike other designs that use electrically initiated cartridges. Consequently, avoid EMC problems, the safety concerns with regards to air transport and the high storage cost of electrically initiated cartridges. Sold directly from ELP and warranty information is provided by the manufacturer. Visit www.elp-gmbh.de
Part # 16637

PAN Disrupter™ Mount
Allows easy installation of the PAN Disrupter on Link 2 of the iRobot 510 PackBot. Includes two integrated laser sights. Gas shock absorbers dissipate recoil when the disrupter is fired, ensuring robot safety and minimal recoil. Link 2 QuickClamp Accessory Mount is required for installation. Firing the PAN Disrupter also requires Single Channel Shock Tube Initiator (16637). Percussion-Actuated Non-electric (PAN) Disrupter is available from Ideal Products Inc. at 859.881.8665 or www.idealproductsinc.net.
Part # 17955

ChemRing Recoilless Disrupter Mount
Attaches at Link 2 QuickClamp Accessory Mount. Includes two integrated lasers for sighting. This mount attaches and detaches from clamp in seconds. Supports ChemRing RE 12-12, RE50-28 M2 and RE70 M3. Link 2 QuickClamp Accessory Mount is required to install this disrupter mount. Order disrupters directly from www.chemringusd.com.
Part # 14111

Safe Firing System Key or Code Plug Kit
Key is interchangeable with PackBot EOD and 510 PackBot with EOD Kit. No reprogramming required. Insert key in firing circuit and use as normal. Includes iRobot-logo lanyard.
Part # 12126

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 1-888-776-2587. International customers, call +(1) 781.430.3090.

Mounts and Disrupters

iRobot platforms support a variety of disrupters. Disrupters can be electrically initiated or Shock Tube initiated. Contact disrupter manufacturer for details. Electrical initiation can be provided by iRobot PackBot Safe Firing System. Shock Tube initiation requires the Single Channel Shock Tube Initiator.

Note: Robots incapable of firing disrupters due to their original configurations can be adapted to accept disrupters. Contact iRobot for more information.

Proparms 20 mm Recoilless Disrupter Mount
Modular clamp system attaches at Link 2 QuickClamp Accessory Mount to the Proparms 20 mm Recoilless Disrupter. QuickClamp Accessory Mount is required to install this disrupter mount. Attaches and removes from clamp in seconds. Order Proparms disrupters directly from www.proparms.com
Part # 14064

Single Channel Shock Tube Initiator
Gives users the ability to initiate shock tube from the firing circuit on the Safe Firing System. Attaches to the head-mounted QuickClamp Fireset. Mounts and dismounts from robot in seconds. Good for 10,000 shots. For disrupters that require shock tube initiation such as PAN disrupters.
Part # 16637

CMD Spool Kit
Allows the operator to place a charge, then back off to a safe standoff distance before firing the device using the safe firing circuit. Guide ball keeps firing cable (25 m) outspooling smoothly. Spool attaches and removes from mount in seconds without tools. Mount attaches to the QuickClamp Fireset for compatible robots.
Part # 13647

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 1-888-776-2587. International customers, call +(1) 781.430.3090.
Communications Accessories

Universal SmartSpool™ Fiber Optic Spooler
Allows operator to drive robot with fiber optic cable. Includes 721 ft. (220 m) of optical fiber, automatic payout and rewind to minimize tangle and excess tension. Additional software may be required.
Note: Fiber Ethernet Converter Box & OCU Fiber Module (Part # 4180888) is sold separately.
Part # 16335

Spare Fiber Optic Cable Spool (220 m)
Part # 12124

2.4 GHz Radio OCU Module
Enables compatibility between the 2.4 GHz radio and the Operator Control Unit. Includes 2.4 GHz Radio OCU module and antenna.
Part # 4208731
(for 510 PackBot configurations)

OCU Radio Module
Protective Cover
Protects uninstalled OCU radio modules. Includes adjustable nylon strap with male/female side-release buckles.
Part # 4245448

Fiber-Ethernet Converter Box and OCU Fiber Module
Enables compatibility between the Universal SmartSpool™ Fiber Optic Spooler and the Operator Control Unit.
Part # 4180888
(for 510 PackBot configurations)

CommSelect™ 5140 Kit for PCC
Communications link providing improved radio performance that is less susceptible to interference from sources of 2.4 GHz noise. Includes radio payload with integral antenna that fits in the PackBot payload bay and external radio with integral antenna that mounts to the outside of PCC.
Part # 415379G

4.9 GHz Large Patch Antenna with Pole Mount Kit
Enables the operator to wirelessly communicate with a robot from farther standoff distances. Includes 4.9 GHz directional antenna, pole mount and a 3.5 m antenna cable. Use with laptop OCU and 4.9GHz Radio OCU Module.
Note: Compatible with 510 FastTac and robots configured with 4.9 GHz CommSelect payload
Part # 4182668
Part # 4248592

4.9 GHz Omni Antenna with Vehicle Magnet Mount Kit
Enables operator to wirelessly communicate with a robot from inside a vehicle. Includes 4.9 GHz omni antenna, disc magnet, two 18" flexible adapter coaxial cables and a 20-foot, low-loss coaxial cable. Use with laptop OCU and 4.9 GHz Radio OCU Module.
Note: Compatible with 510 FastTac and robots configured with 4.9 GHz CommSelect payload
Part # 4196154

4.9 GHz Communications Package for Laptop OCU
Includes 4.9 GHz radio payload with integral antenna that fits in the PackBot payload bay and external radio with integral antenna that mounts to the outside of OCU.
Part # 4182668
(for 510 PackBot configurations)

4.9 GHz Omni Antenna with Vehicle Magnet Mount Kit
Includes tripod with adjustable legs.
Part # 13971

2.4 GHz Long Range Antenna Kit
Increases PackBot’s wireless radio communications from ~300 m to ~800 m (line of sight). Uses two high-gain directional antennas. Two 3.5 m antenna cables included. Waterproof and dustproof design. Cables screw onto standard PCC and OCU antenna connectors.
Vehicle Mounted Antenna
Versatile clamp attaches antenna to military vehicles and structures. Disassembles into compact transportable modules. Elevates antenna 2.5 m above clamp mounting point.
Part # 9484

Tripod Mounted Antenna
Includes tripod with adjustable legs.
Part # 13971

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.776.2667. International customers, call (+1) 781.430.3090.
BB-2590/U Battery Adapter for AMREL® OCU
Enables AMREL® OCU operation and recharging with BB-2590/U batteries. Provides additional in-field OCU runtime without AC power source. Battery hot-swap capable. Includes battery plug retention strap.

Industrial model
Power connector compatible with industrial AMREL® only.
Part # 4216025

Military model
Power connector compatible with military AMREL® only.
Part # 4244214

AC to DC Power Supply Cable for AMREL® OCU
This adapter enables a robot operator to simultaneously operate the AMREL® OCU and charge the OCU’s primary battery via electrical power outlets 100–240VAC, 1-2A, 50–60Hz.

Industrial model
Power connector compatible with industrial AMREL® OCU model only.
Part # 15949

Military model
Power connector compatible with military AMREL® OCU model only.
Part # 4266653

BB-2590/U Battery Adapter for PCC
Enables PCC operation with BB-2590/U batteries. Provides additional in-field OCU runtime without AC power source. Battery hot-swap capable. Includes battery plug retention strap.

Industrial model
Power connector compatible with industrial AMREL® only.
Part # 4216025

Military model
Power connector compatible with military AMREL® only.
Part # 4244214

AC Adapter Kit for PCC
Produces regulated 24 Volts for PCC external power. Kit includes AC adapter that accepts 120–240 AC voltage input range. Plugs into standard PCC external 24 Volt DC-in connector. Modular cord set allows adaptation to local mains.

Part # 13816

AC Power Cable for PCC
Adapts to your MicroCharger Power Cable to allow you to power the PCC from an AC wall outlet.

Part # 12129

DC Power Cable for PCC
Allows PCC to be powered directly by 24 Volt military vehicles. 3 m long cable allows flexible cable routing. Plugs into standard PCC. External 24 Volt DC-in connector.

Part # 12128

Inverter 12/24 Volt for PCC
Allows mobile operation of the PCC without batteries. PCC is powered by 12 Volt or 24 Volt on board vehicle power source. Includes a car/truck connecting cable (plugs into cigarette lighter), a PCC connecting cable, and one inverter. According to CE Directive 93/68/EEC, the device bears the CE-Label. Sold directly from ELP and warranty information is provided by the manufacturer. Visit www.elp-gmbh.de

Part # 4235399

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.776.2667. International customers, call +(1) 781.430.3090.
**Power Accessories**

**BB-2590/U Battery Chargers**
Portable for field and depot use. Charge a wide range of batteries for military communications and other electronics. Easy-to-use, with LED indicator lights. Charging system is upgradeable in the field or depot through the R6232 port.

- **Dual Battery Charger, High-Rate**
  - Charges two batteries simultaneously in three hours or less.
  - **Note:** Requires one Dual BB-2590/U Battery Charger Adapter
  - Part # 18586
  - Listed on GSA

- **Eight-Bay Battery Charger, High-Rate**
  - Charges eight batteries in eight hours or less. Charges two batteries simultaneously, with six batteries in queue.
  - **Note:** Requires four Dual BB-2590/U Battery Charger Adapters
  - Part # 18587
  - Listed on GSA

- **BB-2590/U Battery Charger, Single, Low Rate**
  - Single-station battery charger for BB-2590/U batteries. Charges BB-2590/U within 10 hours.
  - Part # 18584
  - Listed on GSA

- **BB-2590/U Battery Charger, Single, Medium Rate**
  - Single-station battery charger can be powered from 115/230 Vac, 50 or 60 Hz mains power or from 12Vdc automotive power sources. Unit charges BB-2590/U in six hours or less.
  - Part # 18585
  - Listed on GSA

- **RCV BB-2590/U Battery Retrofit Kit**
  - Retrofits Packbot robots enabling use of the BB-2590/U lithium ion rechargeable battery in current use. Plug-and-play kit includes a cradle that accommodates two batteries. Use of two BB-2590/U batteries recommended for optimum performance.
  - BB-2590/U batteries not included.
  - Part # 18616

**NiCad Battery Pack with LCD Battery Power Display**
Compatible with all Packbot robots and selected robot control units, such as the PCC.

- **Part # 11076**
  - Listed on GSA

**NiCad Battery Strap Kit**
Increases run time of the Packbot by allowing installation of additional NiCad batteries in one (or both) of the two rear battery ports.

- **Part # 8009**

**Cigarette Lighter Adapter for MicroCharger**
Allows direct connection of the MicroCharger to the on-board vehicle power source, whether it’s 12 Volt or 24 Volt. 2 meter connecting cable allows flexible cable routing. Includes 2 connecting cables. Sold directly from ELP and warranty information is provided by the manufacturer.

- Visit [www.elp-gmbh.de](http://www.elp-gmbh.de)

**NiCad Battery**

- **Part # 11076**
  - Listed on GSA

**BB-2590/U Lithium Battery**
Rechargeable, 24V lithium ion battery with state-of-charge display. Use of two BB-2590/U batteries per cradle recommended for optimum performance. Check with shipper for domestic and international shipping guidelines.

- **Part # 18616**
  - Listed on GSA

**BB-2590/U Lithium Battery Discharger Kit**
Discharges NiCad Battery Packs for maintenance conditioning cycles designed to recover battery capacity. Discharges up to four batteries simultaneously. House in a portable, self-cooling case.

- Part # 12771

**Single and Dual MicroCharger Kits**
To charge NiCad battery packs. Dustproof and waterproof housing. 24 Volt DC input option for military vehicle installation. AC adapter accepts 120-240 voltage range. LEDs indicate battery status. Includes modular cord set for adaptation to local mains, secure mounting tabs and sturdy storage case.

- **Part # 13084**
  - Dual MicroCharger Kit

- **Part # 13086**
  - Dual MicroCharger Kit

**BB-2590/U Battery Charger, Single, Low Rate**
Single-station battery charger for BB-2590/U batteries. Charges BB-2590/U within 10 hours.

- **Part # 18584**
  - Listed on GSA

**BB-2590/U Battery Charger, Single, Medium Rate**
Single-station battery charger can be powered from 115/230 Vac, 50 or 60 Hz mains power or from 12Vdc automotive power sources. Unit charges BB-2590/U in six hours or less.

- **Part # 18585**
  - Listed on GSA

**NiCad Battery**

- **Part # 11076**
  - Listed on GSA

**BB-2590/U Battery Charger, Single, Low Rate**
Single-station battery charger for BB-2590/U batteries. Charges BB-2590/U within 10 hours.

- **Part # 18584**
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**BB-2590/U Battery Charger, Single, Medium Rate**
Single-station battery charger can be powered from 115/230 Vac, 50 or 60 Hz mains power or from 12Vdc automotive power sources. Unit charges BB-2590/U in six hours or less.

- **Part # 18585**
  - Listed on GSA

**RCV BB-2590/U Battery Retrofit Kit**
Retrofits Packbot robots enabling use of the BB-2590/U lithium ion rechargeable battery in current use. Plug-and-play kit includes a cradle that accommodates two batteries. Use of two BB-2590/U batteries recommended for optimum performance.

- BB-2590/U batteries not included.

- Part # 18616

**BB-2590/U Battery Charger, High-Rate**
Charges two batteries simultaneously in three hours or less.

- **Note:** Requires one Dual BB-2590/U Battery Charger Adapter

- Part # 18586
  - Listed on GSA

**Dual Battery Charger, High-Rate**
Charges two batteries simultaneously in three hours or less.

- **Note:** Requires one Dual BB-2590/U Battery Charger Adapter

- Part # 18586
  - Listed on GSA

**Eight-Bay Battery Charger, High-Rate**
Charges eight batteries in eight hours or less. Charges two batteries simultaneously, with six batteries in queue.

- **Note:** Requires four Dual BB-2590/U Battery Charger Adapters

- Part # 18587
  - Listed on GSA

**BB-2590/U Battery Charger, Single, Low Rate**
Single-station battery charger for BB-2590/U batteries. Charges BB-2590/U within 10 hours.

- Part # 18584
  - Listed on GSA

**BB-2590/U Battery Charger, Single, Medium Rate**
Single-station battery charger can be powered from 115/230 Vac, 50 or 60 Hz mains power or from 12Vdc automotive power sources. Unit charges BB-2590/U in six hours or less.

- Part # 18585
  - Listed on GSA

**RCV BB-2590/U Battery Retrofit Kit**
Retrofits Packbot robots enabling use of the BB-2590/U lithium ion rechargeable battery in current use. Plug-and-play kit includes a cradle that accommodates two batteries. Use of two BB-2590/U batteries recommended for optimum performance.

- BB-2590/U batteries not included.

- Part # 18616

**NiCad Battery Pack with LCD Battery Power Display**
Compatible with all Packbot robots and selected robot control units, such as the PCC.

- Part # 11076
  - Listed on GSA

**NiCad Battery Strap Kit**
Increases run time of the Packbot by allowing installation of additional NiCad batteries in one (or both) of the two rear battery ports.

- **Part # 8009**

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.776.2687. International customers, call +1 (781) 776.2687.
Audio and Video Out Cable for PCC

Converts A/V signals to three standard RCA plugs. Plugs into standard PackBot PCC Audio Video Out connector. Allows screen to be displayed on composite external monitor and audio to be played over speakers. Full-screen information and audio can be recorded to external device (camcorder, DVD recorder, VCR) in real time. Cable approximately 2 m in length.

Part # 4244217

OCU Backpack

Provides non-operational storage and transport for laptop (OCU), OCU accessories and manuals. Includes adjustable straps and rubber grip carrying handle. Available in black only.

Part # 10636

Operator Control Unit

Rugged, lightweight 15" AMREL® laptop. Anti-reflective LCD screen provides real-time video from multiple cameras and a 3-D active model of the robot’s orientation. On-screen displays indicate battery power, fiber and communications signal strength. All-weather operation. Battery powered; can be used with supplementary power supply.

Part # 4271345

Spare Lithium-Ion Battery for AMREL® OCU Laptop

Rechargeable lithium-ion battery for the AMREL® OCU Laptop. 11.1 VDC, 7200 mAh. Compatible with both industrial and military AMREL® OCU laptop models.

Part # 15744

Behind-The-Head Headset with Microphone

Commercial headset with microphone enables two-way communication through PackBot’s audio capable payloads (the 3-link Arm and SAP). Behind-the-head design allows for use with many helmets. 2.4 m cable connects to two standard 3.5 mm jacks. Includes volume control and mute switch. Compatible with AMREL® Rugged Laptop Controllers.

Part # 4185394

Hand Controller Upgrade Kit

Allows the user to make a legacy PCC compatible with the new Hand Controller. Includes two hand controllers with Fischer connectors, a hand drive with mounting bracket, a Quick Reference Guide and supporting documentation. Easy-to-learn and use, the hand controller improves ease-of-operation and reduces on-robot training time.

Part # 16953 (for PackBot EOD)
Part # 17839 (for PackBot MTRS)

Single Hand Controller Kit with Fischer Connector

For use with a previously purchased PCC and/or system with hand controller software support enabled. Also for use as an additional controller. Includes one hand controller, a quick reference guide and supporting documentation. Easy-to-learn and use, the hand controller improves ease-of-operation and reduces on-robot training time.

Part # 17364

Single Hand Controller Kit with USB

For use with the rugged laptop Operator Control Unit (OCU). Includes one hand controller, a quick reference guide and supporting documentation. Easy-to-learn and use, the hand controller improves operation and reduces training time.

Part # 17384

For more information or a quote, contact iRobot at sales@irobot.com or toll-free in the U.S. at 888.776.2687. International customers, call +(1) 781.430.3090.
Developer accessories and services are intended to support third-party technical development and the productization of the resulting work. iRobot views collaboration with external developers as an essential way to provide a broad range of new capabilities to warfighters and first responders.

**Developer Accessories**

- **Custom Ethernet and Serial cable for interfacing with PackBot chassis.** Part # 5606
- **Custom Ethernet and Power cable for interfacing with PackBot PCC.**
  - **NOTE:** Must be used with MicroCharger Power Cable (Part #10162), AC Adapter Kit for PCC (Part #13618) or NiCad Battery Pack (Part #11076).
  - Part # 13805
- **Single Wide Payload Tub Kit**
  - Includes a plastic tub that spans a single payload slot in the rear of any PackBot chassis; cover plate; internal mounting plate for securing payload components; integrated payload connector and Paybreak Light Kit that provide standard access to PackBot interfaces; and a full set of spares.
  - Part # 4131616
- **Double Wide Payload Tub Kit**
  - Includes a plastic tub that spans two payload slots in the rear of any PackBot chassis; cover plate; internal mounting plate for securing payload components; integrated payload connector and Paybreak Light Kit that provide standard access to PackBot interfaces; and a full set of spares.
  - Part # 4131240
- **Triple Wide Payload Tub Kit**
  - Includes an aluminum tub that spans all three payload slots in the rear of any PackBot chassis; cover plate; internal mounting plate for securing payload components; integrated payload connector and Paybreak Light Kit that provide standard access to PackBot interfaces; and a full set of spares.
  - Part # 4131243
- **Programming Tethers**
  - Custom Ethernet and Serial cable for interfacing with PackBot chassis.
  - Part # 5606
  - Custom Ethernet and Power cable for interfacing with PackBot PCC.
  - **NOTE:** Must be used with MicroCharger Power Cable (Part #10162), AC-Adapter Kit for PCC (Part #13618) or NiCad Battery Pack (Part #11076).
  - Part # 13805
- **AC Power Adapter Kit**
  - Designed to facilitate rapid development on PackBot. Kit includes an AC power source that plugs into the side-pod payload bay connector usually used by the NiCad battery.
  - Part # 13806
- **Paybreak Light Kit**
  - Designed to speed development on PackBot by providing standard electrical interfaces to the system. The Paybreak Light Kit provides Ethernet, Regulated 5V and 12V, Unregulated 18-30V and two NTSC video channels.
  - Part # 4131242
- **Product Training**
  - Make every robot operator an expert at controlling PackBot. iRobot offers a wide variety of flexible and targeted training support packages to meet your product training needs.
  - Taught by iRobot master instructors, training courses are designed to meet all levels of operator experience and can be tailored to your specific needs. Courses include classroom instruction with computer-based learning and practical hands-on exercises with the robot that comprehensively cover operation and maintenance. Exercises can be tailored to the experience level and aptitude of individual participants and learning is enhanced with one-on-one coaching from the instructor.
  - Training takes place at iRobot’s corporate training center in Bedford, Massachusetts or at your chosen location. Training courses are one, three or five days.
  - For more information, contact iRobot by e-mail at training@irobot.com
- **Product Support**
  - iRobot offers a full range of product support:
    - **Technical Support** — Get fast and accurate answers to your questions with technical support by telephone, e-mail and the web.
    - **Depot Repairs and Maintenance** — To keep your robots in top operational condition, extensive repair and maintenance services are available at the iRobot depot in Bedford, Massachusetts and through a worldwide network of certified partners and distributors. All high-usage parts are kept in stock to reduce maintenance times.
    - **Upgrades and Accessories** — iRobot provides periodic updates to equip your robots with the latest hardware, software, features and functionality.
    - **Service Plans** — Annual coverage includes on-site service, operator and maintenance training, battery replacement, a maintenance credit for non-warranty repairs and technical support.
    - **An Extended Warranty** — Protect your robot with a one-year extension of the standard warranty.
  - For more information about product support, contact iRobot by telephone at +1.781.430.3030 or e-mail gisupport@irobot.com for ground robots or maritimesupport@irobot.com for underwater robots.