

INSTALLATION MANUAL – Indoor/Outdoor Mounts for RLS-2020

Unpacking

Unpack carefully. This is mechanical equipment and should be handled with care. If an item appears to have been damaged in shipment, replace it properly in its carton and notify the shipper. If any items are missing, notify the vendor. The shipping carton is the safest container in which the unit may be transported. Save it for possible future use.

Service

If the unit ever needs repair service, the customer should contact the vendor for a return materials authorization (RMA) and shipping instructions.

Care and Maintenance

Perform routine maintenance to keep the unit dust free.

Model Designation

2020WMA-1	Indoor/Outdoor Wall Mount Arm
2020PLMK-1	Pole Mount Adapter for 2020WMA-1
2020CMB-1	Corner Mount Adapter for 2020WMA-1

Description

These mounts are used to mount the RLS-2020 Laser Scan Detector on any vertical flat surface, pole, or corner. Installation is similar to a standard camera wall mount arm. The wall arm provides four (4) mounting points and hardware included.

Hardware Kits

2020WMA-1:	2x M4x10mm Phillips Head Screws 2x M4 Flat Washers 1x Cable Grommet (Gray) 4x Mounting Screws 4x Plastic Wall Anchors
2020PLMK-1:	2x Worm Gear Pipe Clamps (Stainless Steel) 4x 1/4-20 Round Head Hex Drive Screws 4x 1/4" Flat Washers 4x 1/4" Lock Washers
2020CMB-1	4x 1/4-20 Round Head Hex Drive Screws 4x 1/4" Flat Washers 4x 1/4" Lock Washers

Certification

Scanner installation should be performed by a licensed professional and conform to the National Electrical Code (NEC) and any applicable local codes.

Corner Mount Installation

1. Hold mount bracket up to installation surface; use it as a template to mark hole locations.
2. Drill appropriate size holes for fasteners and cable; each fastener should have a 150-lbs pull-out strength. Attach mount bracket to wall with appropriate fasteners.
3. Attach the 2020WMA-1 mount bracket to the corner mount using the fasteners provided with the corner mount (see Figure 2).
4. Skip to "Wall Mount Installation" Step 3.

Pole Mount Installation

1. Attach pole mount to pole (Diameter 3" ~ 12" max) at the desired height according to the instructions included with the stainless steel worm-drive straps.
2. Attach the 2020WMA-1 mount bracket to the pole mount using the fasteners included with the pole mount (see Figure 3)
3. Skip to "Wall Mount Installation" Step 3.

Wall Mount Installation (see next page)

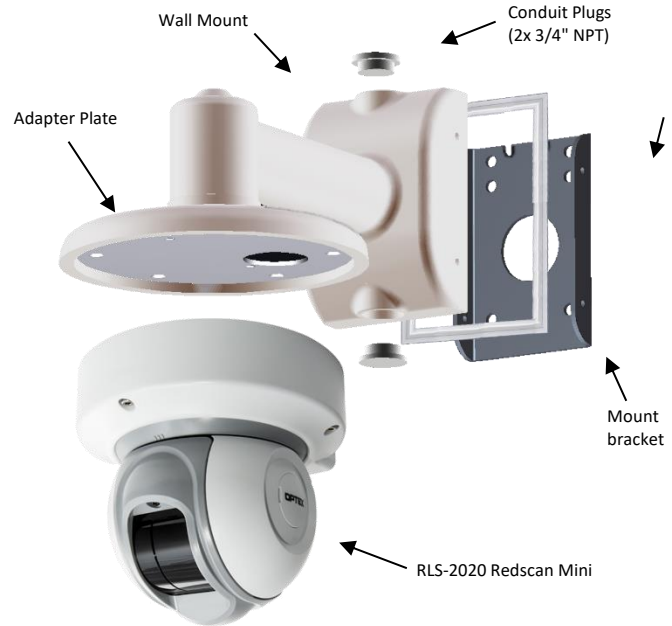


Figure 1 – OPTEX RLS-2020 with 2020WMA-1 Wall Mount (Overview – see Figure 5 for additional details)

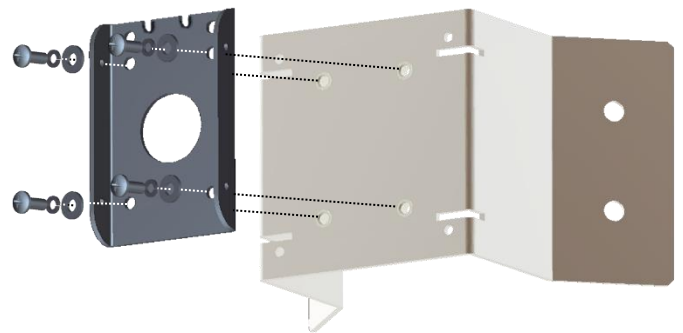


Figure 2 – Corner Mount (right) w/ Mount Bracket (left) from 2020WMA-1 Wall Mount

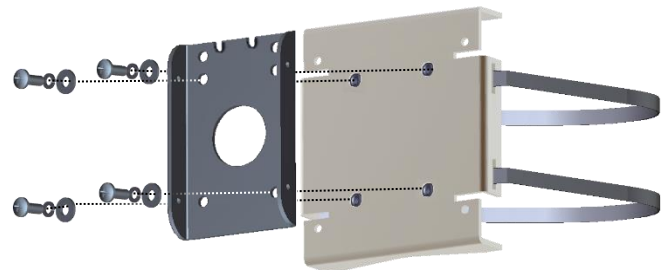


Figure 3 – Pole Mount (right) w/ Mount Bracket (left) from 2020WMA-1 Wall Mount

Wall Mount Installation

1. Hold mount bracket up to installation surface; use it as a template to mark hole locations.
 2. Drill appropriate size holes for fasteners and cable. Each fastener should be appropriate for the installation surface and have a 150-lbs pull-out strength.
 3. Attach mount bracket to wall with appropriate fasteners.
- IMPORTANT NOTE:** The Mount Flange Gasket requires a flat, smooth surface to function properly. When installing this mount on a rough surface (e.g. brick wall), apply a bead of RTV around the perimeter of the mount bracket.
4. (Optional) Remove conduit plug from wall mount and run conduit to the installation site. Attach conduit to the top or bottom of the mount with a 3/4" conduit fitting.
 5. Run cable through mount bracket leaving enough slack to run cable through mount to RLS-2020
 6. Attach gasket around mount flange.
 7. Route cable through wall mount. Remove adapter plate if needed to route cables; re-attach once cables are routed through hole in plate.
 8. Two recessed screws in the top of the mount flange (see Figure 4) can be used to hang the wall mount on the wall bracket. Ensure the screws do not protrude past the mount flange which could prevent a good seal
 9. Align the holes and install screws in the wall mount to attach it to the wall bracket. Ensure the gasket is being compressed by the installation surface.
 10. Make wiring connections to the RLS-2020 per "Wiring Cable Entry" section of instructions included with that unit.

IMPORTANT NOTE: If removing the knockout in the base of the RLS-2020 for cable entry in outdoor environments, install the gray grommet from the 2020WMA-1 hardware kit into the knockout hole and run the cable through the grommet. Deburr the knockout hole with a 20mm drill to ensure a good seal (see Figure 6a-6d).

11. Attach RLS-2020 to adapter plate per instructions included with that unit.

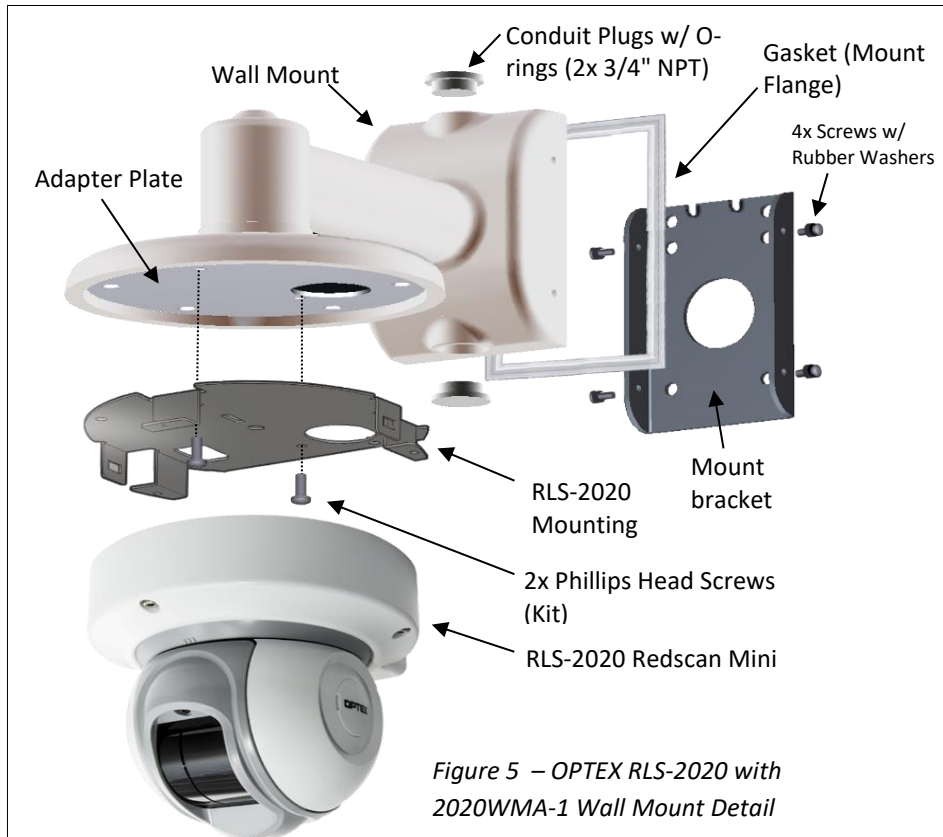


Figure 5 – OTEX RLS-2020 with 2020WMA-1 Wall Mount Detail



Figure 4 – Rear flange of 2020WMA-1 (right) and Mount Bracket (left)

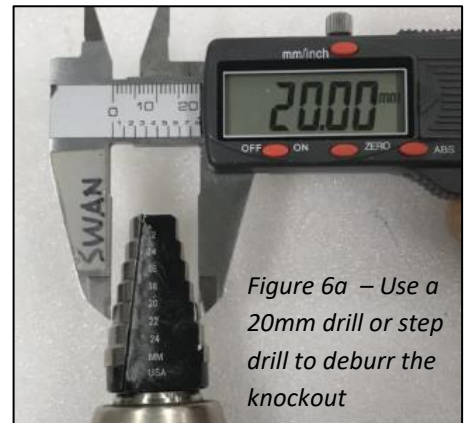


Figure 6a – Use a 20mm drill or step drill to deburr the knockout

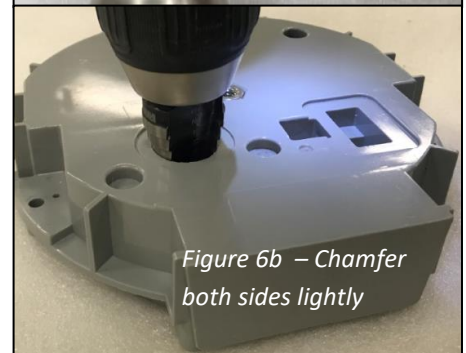


Figure 6b – Chamfer both sides lightly



Figure 6c – Ready to install grommet

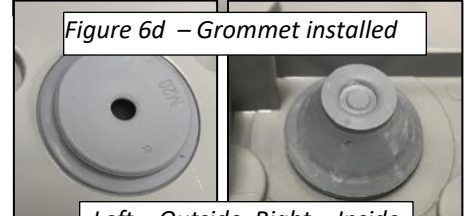


Figure 6d – Grommet installed

Left = Outside, Right = Inside