PEACOC® 360 SPOOLING PATCH PANEL

Platform with **E**nhanced **A**ccessibility for **C**ompact **O**ptical **C**onnectors

Installation, Operation and Maintenance Manual

October 2024

Copyright

Trademark Information

Disclaimer of Liability

The contents of this document are current as of the date of publication. Go!Foton reserves the right to change the contents at any time and without prior notice. In no event shall Go!Foton be held liable for any damages resulting from loss of data, loss of use, or loss of profits and Go!Foton further disclaims any and all liability for indirect, incidental, consequential, or other similar damages resulting from the use or misuse of the contents herein. This disclaimer of liability extends to all products, publications, and services during and after the warranty period.

Document Revision History

Revision #	*Date*
00	*OCTOBER 2024*

Go!Foton Corporation
28 Worlds Fair Drive
Somerset, NJ 08873
Office: +1 (732) 469-9650 ext. 301
Fax: +1 (908) 842-0232
www.GoFoton.com
"Bring Light to Life"

Table of Contents

1. Purpose

This document describes the Installation, Operation & Maintenance Manual procedures associated with the Go!Foton PEACOC 360 Spooling Patch Panel. The purpose of the document is to ensure the safe and correct installation of the PEACOC Panel, as well as the safe and accurate management of the optical connection. Operations included this manual describe the procedures that should be followed when mounting the PEACOC Panel onto the rack, when installing jumper cables for the first time, and also describe the procedures that should be followed when cleaning or replacing connectors.

2. Safety Information

Throughout this document, important safety admonishments are used to alert the operator of possible hazards to persons or equipment. This safety information is conveyed through the use of Dangers, Warnings, and Cautions – it is important for these to be followed at all times. The various warnings are defined below and are highlighted throughout this document with use of the triangular alert icon (see below). The warnings shown below are listed in order of decreasing severity, either of personal injury or potential damage to equipment.

△ **Danger:** Danger is used to indicate a possible hazard which ***will*** cause severe personal injury, death, or substantial property damage if the hazard is ignored.

△ **Warning:** Warning is used to indicate a possible hazard which ***can*** cause severe personal injury, death, or substantial property damage if the hazard is ignored.

△ **Caution:** Caution is used to indicate a possible hazard which ***will*** or ***may*** cause minor personal injury, or property damage if the hazard is ignored.

3. General Safety Precautions

△ **Danger:** *Infrared radiation is invisible and can seriously damage the retina of the eye. Do not look into the ends of any optical fiber or connector. Do not look directly into the optical adapters when a connector is removed during cleaning or when they are being replaced. The use of an optical power meter should be used to verify active fibers. A protective cap or cover MUST be immediately placed over any live adapter or optical fiber connector to avoid the potential of dangerous amounts of radiation exposure. This practice will also help to prevent dirt particles from entering the optical pathway which may affect transmission performance.*

△ **Caution:** *When working with the PEACOC fiber distribution panel at a height that is above easy reach, an A-frame type of step ladder should be used to provide a safe and secure footing.*

3.1 General Principles for PEACOC Operation

As the demand for rapid data center and ISP deployments grows alongside a shortage of skilled labor, a new solution is required. This solution must be easy to install, scalable, and ensure fast, efficient fiber connectivity across various network architectures. **PEACOC 360**, a patch panel with integrated spools of pre-terminated fiber cable assemblies, meets these needs by offering a reliable, cost-effective, and time-saving solution.

Designed for high-density fiber optic connectivity, the PEACOC 360 can be used across a range of applications, including data centers, telecommunications, broadcasting, healthcare, and education. Its modular and scalable design, paired with compatibility across multiple fiber connector types, makes it a versatile and reliable choice for managing and organizing fiber optic cables.

The PEACOC 360 takes network deployment speed to new heights. Engineered for usability, manageability, density, and reach, it's the ideal solution for central office, LAN, and data center environments where direct-connect or tie-panel architectures are required. Key features include four independent spools, each containing 100 feet of 24-fiber, 3.0 mm cable, maximizing reach and allowing flexible slack management—eliminating the need to pre-measure cable lengths. The modular 1RU panel can support up to 96 duplex LC connections, which can be added as needed, providing ultimate day-two flexibility. Go!Foton's PEACOC 360 is the ideal quick-deployment connectivity solution for facilities that require optimized resources, scalability, and high density.

3.1.1 Specifications

Attributes	
Chassis Dimensions	17.25 in. W x 15 in. D x 1.75 in. H (43.8 cm W x 38.1 cm D x 4.4 cm H)
Chassis Mounting	19 in., 23 in. EIA or WECO
Spool Cable Length Std	100 ft. - 3.0mm/24f 200 ft. - 2.0mm/12f
Front Interface Connectors	LC/UPC, LC/APC, SC/UPC, SC/APC, LC/MM, SC/MM
Ports per Cassette	12 SC, 24 LC
Ports per 1RU Panel	48 SC, 96 LC
Fiber Mode and Type	SMF, MMF(OM4) ITU-TG.657A2
Far-End Connector	SC, LC, MPO
Operating Temperature (F/C)	-40ºF to 150ºF / -40ºC to +65ºC
Storage Temperature (F/C)	-40ºF to 150ºF / -40ºC to +65ºC
Installation Temperature (F/C)	-40ºF to 150ºF / -40ºC to +65ºC

Performance		
Attributes	**Single Mode OS2**	**Multi-Mode OM4**
MPO Trunk		
Insertion Loss	0.35 dB	0.35 dB
Return Loss	60 dB	20 dB
PEACOC 360 Panel		
Insertion Loss	0.4 dB	0.75 dB
Return Loss	60 dB	30 dB

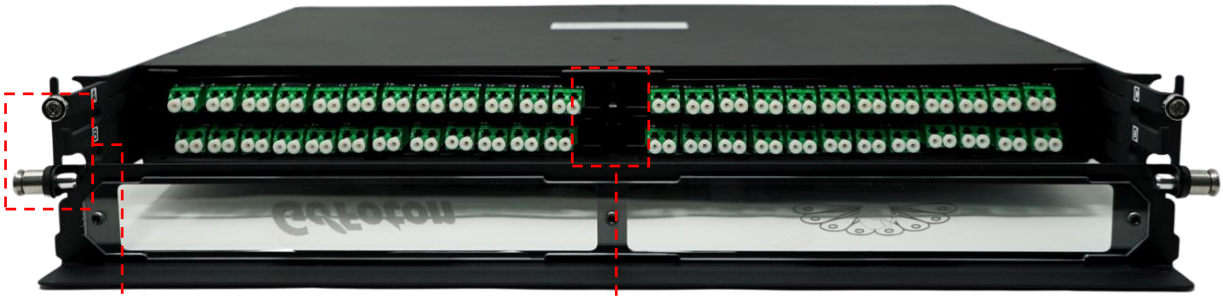
	Shipping Dimensions	**HS Code**
1 RU Panel	20.7 x 20.7 x 7 in. **(52.5 x 52.5 x 17.5 cm)**	**8517.62.49.000**
1 Cassette	19.3 x 12.2 x 5.2 in. **(49 x 31 x 13 cm)**	**8517.62.49.000**

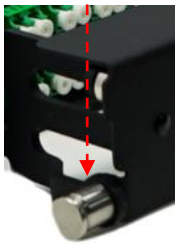
3.1.2 Key Components

The following key components of the PEACOC fiber patch panel are referenced throughout this document. Please refer to the images below as needed to ensure that the proper procedures are strictly followed.

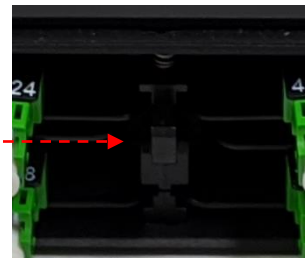
⚠**Warning:** *Failure to follow the procedures in this manual can result in damage to optical fiber cable or the optical connectors. This may further result in a loss of service for active subscribers.*

Front View





Retractable Door Hinge



Cassette Lock

Rear View

Rear side setup after installation

(Package out of the Box)

MPO Cable Extraction

4. Installation of the PEACOC Platform

For bonding and grounding, please follow approved company procedures.

PEACOC 360 Spooling Patch Panel should be installed in a grounded frame per approved company grounding procedures. Proper electrical bonding between the panel and the frame is achieved with the appropriate screws. Additional bonding can be achieved with the placement of a Star Washer between the frame and the panel mounting bracket when it is screwed into the frame.

Please read and follow this manual as your operating guide. To ensure the integrity of the signal and safety of active fibers, please stop immediately and check the associated conditions if you encounter any strong resistance during operation of any of the moving parts. The PEACOC 360 is ordered as Fully loaded Panel paired with a Tie Panel.

4.1 PEACOC 360 Spooling Patch Panel Installation and Cabling Setup

4.1.1 Unpacking and Inspection

Unpack each container while carefully checking the contents for damage and verify contents with the packing slip. If damage is found or parts are missing, file a claim with the commercial carrier and notify Go!Foton Customer Service. Save the damaged cartons for inspection by the carrier.

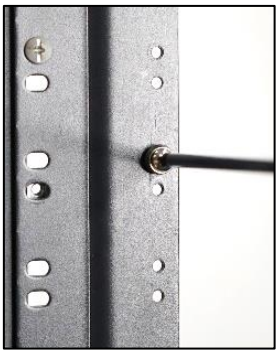
4.1.1.1 Use a cutter to Unwrap the Box, open the box and remove the top foam.

4.1.1.2 Take out the Inspection Certificate, Quick Installation Guide and/or Accessories (If any).

4.1.1.3 Store the packaging materials for later use.

4.1.2 Mounting the Primary Panel in the rack

4.1.2.1 Identify the location in the frame where the panel is to be mounted. Install rack screws partially on each side.



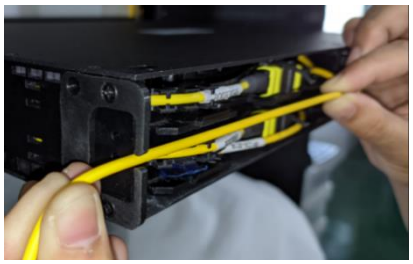
4.1.2.2 Place the Spooling Patch Panel mounting brackets over the screws allowing the panel to rest on the screws.

4.1.2.3 Install additional screw on the mount bracket then tighten all the screws to secure the panel in place.

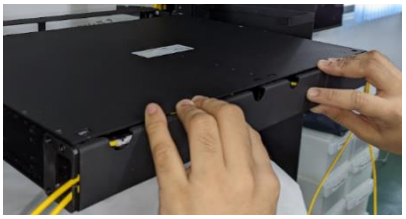
4.1.3 Rear Cable Routing and Management

Using the Rear Cable Hanger, route and secure the extracted MPO jumper cable along both sides of the patch panel for organized cable management.

4.1.3.1 After paying out the cable from the spool, route the outer end of the cable and secure it onto the rear cable hanger for organized management.



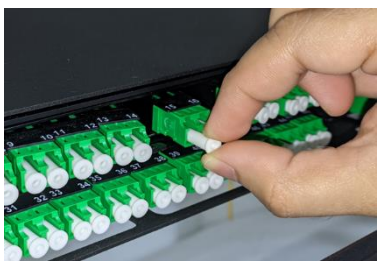

4.1.3.2 Do the same process for the remaining, then replace the rear cover back on the chassis.

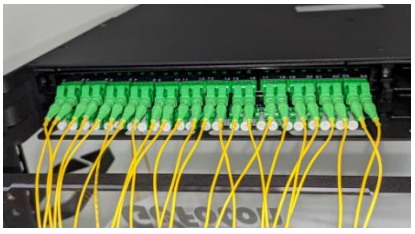
4.1.4 Front Side Cable Routing

4.1.4.1 Open the front door.

4.1.4.2 Spread out other adapters to isolate the desired adapters from the others, then remove the dust caps.

4.1.4.3 Patch the connector in the desired adapter port.

4.1.4.4 Arrange the patch cords cable through the appropriate slot in the cable managers.


4.1.4.5 When all ports have been patched with connectors, arrange the cables hanging in each cassette onto the cable hanger. Pull out the top and bottom plate cover from the chassis and then close the front door to set in place.


NOTICE!

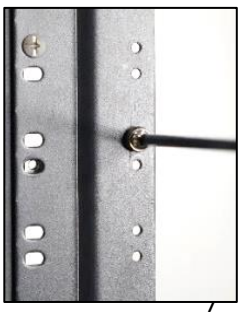
⚠ ***Caution:*** *When mounting equipment in the rack, make sure that the mechanical loading is even to avoid a hazardous condition. Uneven loading of heavy equipment may result in the rack tipping over. Be sure to confirm that the rack is able to safely support the combined weight of all installed equipment.*

NOTICE!

4.2 PEACOC 360 TIE Panel Installation and Cabling Setup

4.2.1 Mounting the Tie-panel in the rack

4.2.1.1 Identify the location in the frame where the panel is to be mounted. Install rack screws (not provided) about halfway into the bottom holes.




4.2.1.2 Place the panel mounting brackets over the screws allowing the panel to rest on the screws.

4.2.1.3 Install additional screws on the mount bracket then tighten all the screws to secure the EVA panel in place.

NOTICE!

⚠ ***Caution:*** *When mounting equipment in the rack, make sure that the mechanical loading is even to avoid a hazardous condition. Uneven loading of heavy equipment may result in the rack tipping over. Be sure to confirm that the rack is able to safely support the combined weight of all installed equipment.*

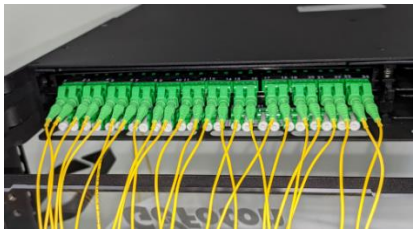
NOTICE!

4.2.2 Front Side Cable Routing

4.2.2.1 Open the front door.

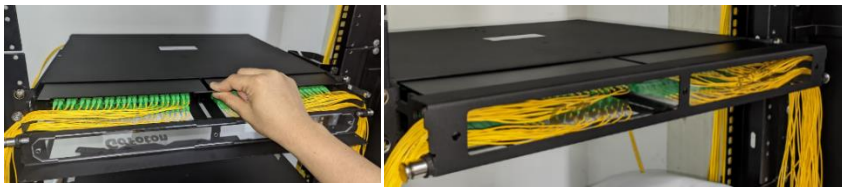
4.2.2.2 Spread out other adapters to isolate the desired adapters from the others, then remove the dust caps.

4.2.2.3 Patch the connector into the desired adapter port.



4.2.2.4 Arrange the patch cords cable through the appropriate slot in the cable managers.

4.2.2.5 When all ports have been patched with connectors, arrange the cables hanging in each cassette onto the cable hanger. Pull out the top and bottom plate cover from the chassis and then close the front door to set in place.



NOTICE!

△ ***Caution:*** *When mounting equipment in the rack, make sure that the mechanical loading is even to avoid a hazardous condition. Uneven loading of heavy equipment may result in the rack tipping over. Be sure to confirm that the rack is able to safely support the combined weight of all installed equipment.*

NOTICE!

5. Operation of PEACOC 360 Spooling Patch Panel Platform

Once the PEACOC 360 Spooling Patch Panel has been installed all further connections/patching is done through the front interface.

Viewing from the front of PEACOC 360 Spooling Patch Panel, Adapter Ports are labeled by continuous numbering. Cassette A is labeled (1-24) and Cassette B is labeled (25-48) in the Left side of the Chassis. Cassette C is labeled (49-72) and Cassette D is labeled (73-96) in the Right side of the Chassis.

5.1 MPO Cable unspooling and rear cable management procedure

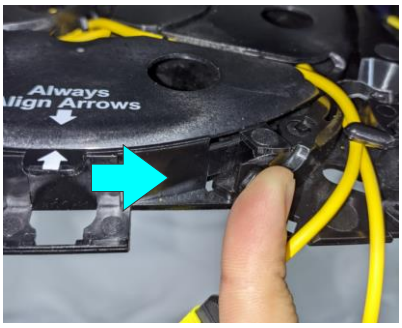
5.1.1 Remove the rear panel cover. From the rear side, select the desired cassette for MPO cable assembly extraction.

5.1.2 Grasp the pull tab of the MPO adapter holder and pull downward to remove it. Locate the center guide lock, press and slide it, then pull out the spool cassette.

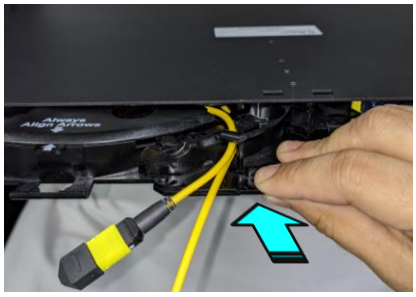
5.1.3 Start pulling the cable out up to desired length.

5.1.4 Remove the inner end MPO cable from the top of the spool, route the inner end MPO cable from the top of the spool going out of the spool cassette

5.1.5 Rotate the spool to align the arrows labeled on the top of the spool and cassette, then push the lock to hold the spool and cable in place

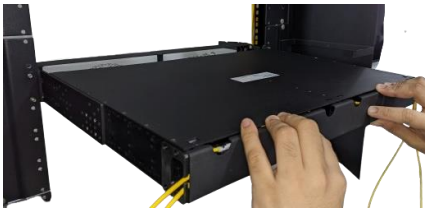


5.1.6 Partially insert the cassette back into the chassis. Retrieve the MPO adapter holder with the connected fan-out and the inner end of the MPO cable. Remove the dust caps from both the MPO adapter and the MPO cable connector, then connect the fan-out and MPO cable within the MPO adapter.



5.1.7 Reattach the MPO adapter holder to the rear of the spool cassette, then secure the MPO cable on the rear cable hanger for organized cable management.

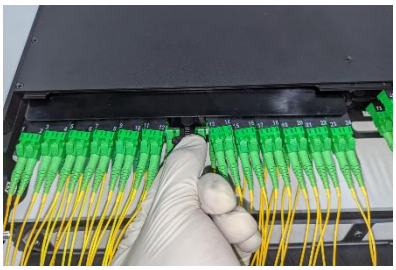
5.1.8 Repeat the process for the remaining cassette. Once completed, reattach the rear cover to the chassis.

6. Spooling Patch Panel Maintenance

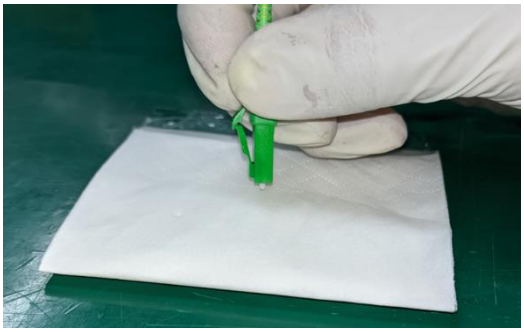
6.3.1 Front Adapter Maintenance

6.3.1.1 Lift the center lock, then pull the cassette about 1inch towards the front.

6.3.1.2 Select one adapter, remove the connector patched in the adapter. Use a Pen type connector cleaner to clean the connector inside the cassette. Use a dust cap to seal the port.


6.3.1.3 For the removed connector, perform connector end face and/or adapter cleaning using your approved company procedures.



6.3.1.4 Inspect the connector end face using video fiberscope.

Customer Information and Assistance

PHONE: 732-469-9650

WRITE:

Go!Foton Corporation
28 Worlds Fair Drive
Somerset, NJ 08873