Go!Foton

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

Go!Foton (Logo), PEACOC are registered trademarks of Go!Foton Corporation

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"

PEACOC 360

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 <u>MUST</u> 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.*

PEACOC 360

3.1 General Principles for PEACOC Operation

As the demand to complete data center and ISP deployments faster with less available labor, a new solution is needed. It must provide a fast and reliable solution that's easy to install, scalable, and allows for quick and efficient fiber connectivity. The product should be compatible with various network architectures and should support different types of fiber connections. PEACOC 360, a patch panel with integrated spools of pre-terminated fiber cable assemblies, offers a simple, cost effective, and time savings solution.

The PEACOC 360 can be used in various applications where high-density fiber optic connectivity is required. Its modular and scalable design, coupled with its compatibility with different fiber optic connectors, makes it a versatile and reliable solution for managing and organizing fiber optic cables. Key applications include data centers, Telecommunications, Broadcasting, Healthcare, and Education.

3.1.1 Specifications

PARAMETER	SPECIFICATION
Number of Connections	96
Accessibility	Adapter cassette – Front Access
	Spool Cassette – Rear Access
Dimensions	16.4"L x 19"W x 1.7"H (1RU)
Width	19" Rack Standard
Total Weight	5.2 kg; ±0.5kg
Cable Configuration per Cassette	1X24 DXLCA-MPO
Cable Type	900um Loose Tube, White
	24F Indoor Cable, OFNR, 3mm, SM, Yellow
Fiber Type	G.657.A2
Adapter Type	LC/APC Green Duplex Adapter
Insertion Loss	≤ 1.35 dB @1310nm & 1550nm
Return Loss	≥ 60 dB @1310nm & 1550nm
Operating Conditions	-40C to +75C (-40°F to 167°F)
Operating Humidity	Up to 93% humidity
Storage Conditions	-40C to +75C (-40°F to 167°F)
Storage Humidity	Up to 93% humidity

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
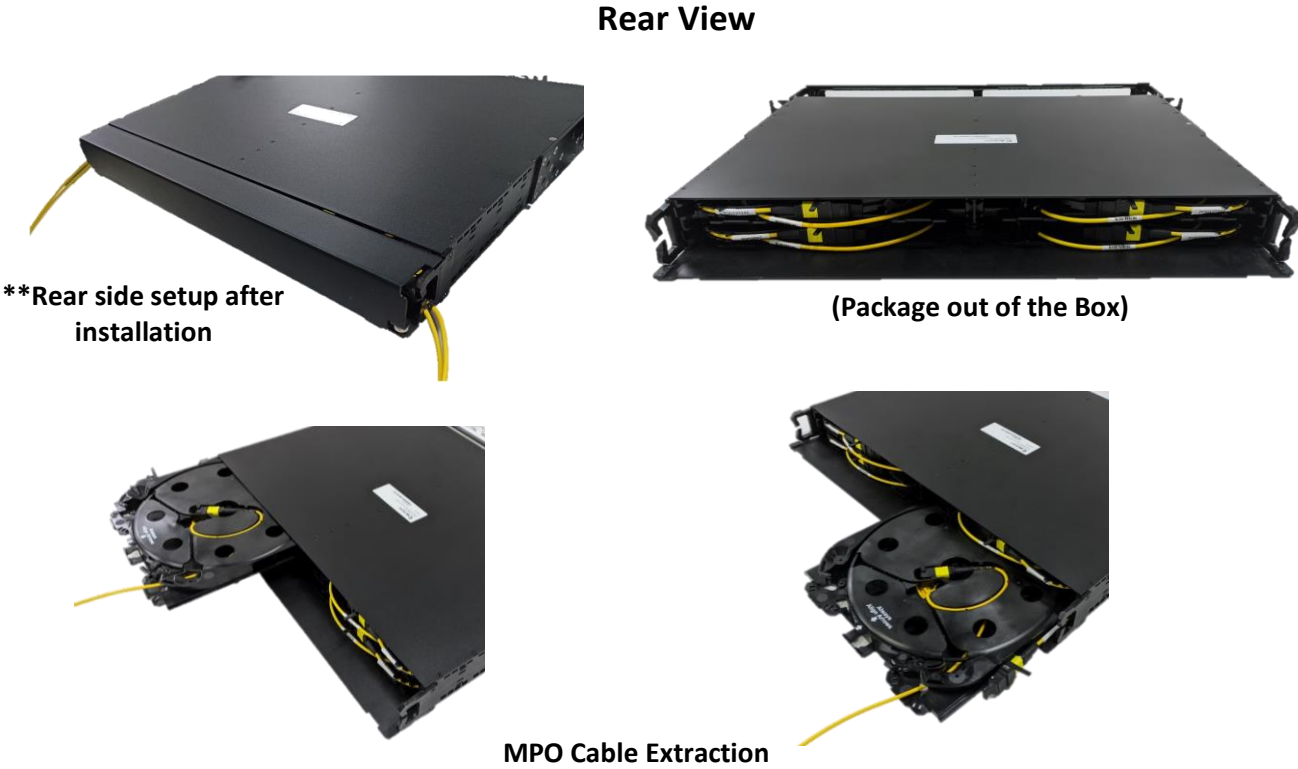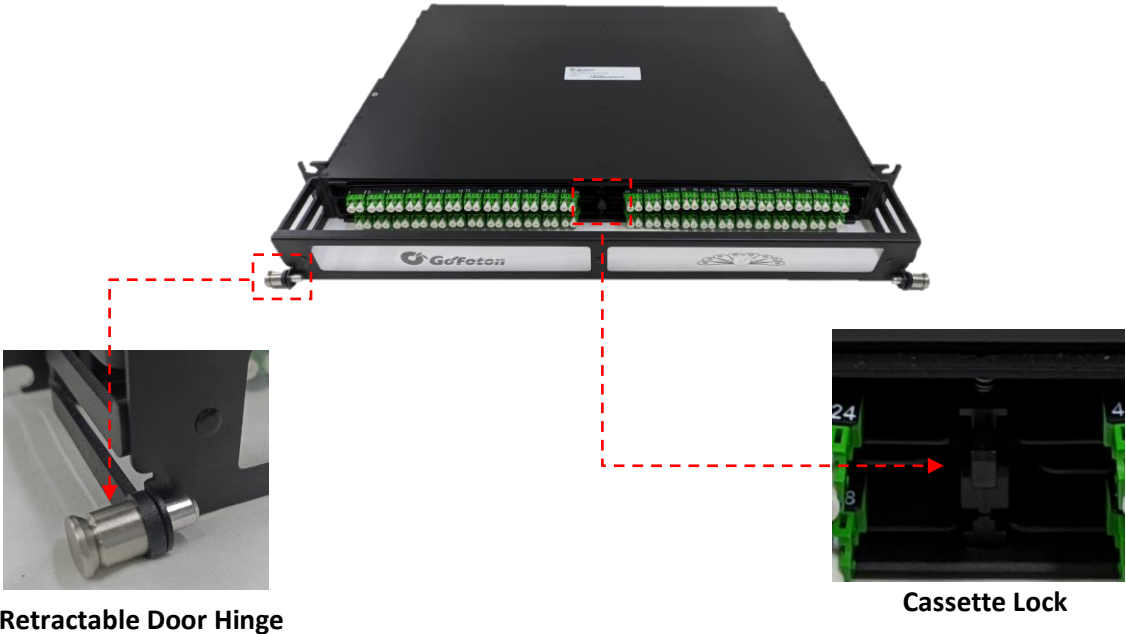
4. Installation of the PEACOC Platform

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 Quick Installation Guide and Accessories (If any).

4.1.1.3 Store the Packaging Materials for later use.

4.1.2 Mounting 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, the extracted MPO Jumper cable can be hanged and arranged on both sides of the Patch Panel.

4.1.3.1 After Extraction of Jumper Cable from spool, arrange the cable by routing the outer end then hang it on the rear cable hanger.

4.1.3.2 Do the same process for the remaining Jumper cables, then after all MPO Jumper cable are routed put the Rear Cover back on the chassis.
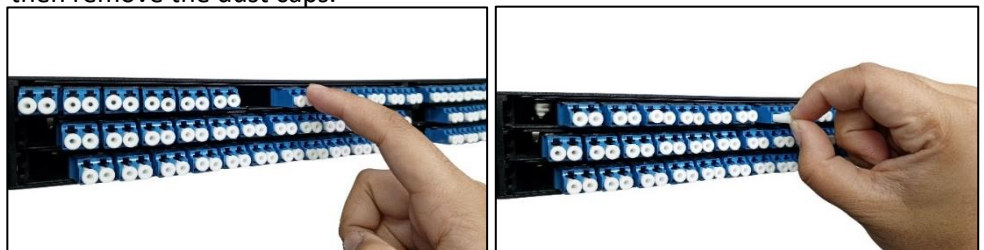

4.1.4 Front Side Jumper Routing (Using EVA Picture as Reference)

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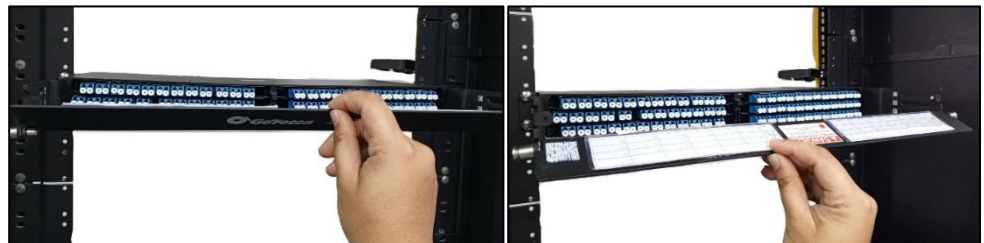
4.1.4.2 Spread out other adapters to isolate the desired adapters from the others, then remove the dust caps.

4.1.3.4 Patch the cable and push back the adapters on their default position.

4.1.4.4 Route the jumper cable through the appropriate slot in the cable managers.

>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>>> **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 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 Quick Installation Guide and Accessories (If any).

4.1.1.3 Store the Packaging Materials for later use.

4.2.2 Mounting Panel in the Rack

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

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

4.2.2.3 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!** >>

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 of the chassis through various cassettes and connector types.


5.1 MPO Cable unspool Procedure

5.1.1 Take off the rear Panel cover, then from the rear side select the desired cassette for extraction of MPO Jumper.


5.1.2 Hold the pull tab of the MPO Adapter holder, then pull down to remove. Grope for the center guide lock, hold for it and swipe then pull out the spool cassette.

5.1.3 Remove the protection tape, then start pulling out the cable up to desired length.

Spool out Halfway during extraction photo
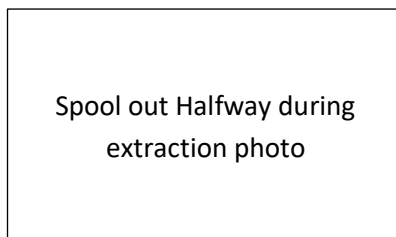
5.1.4 Remove the inner end MPO cable from the top of the spool, Route the Inner end MPO Cable from the top of the spool going out of the spool cassette
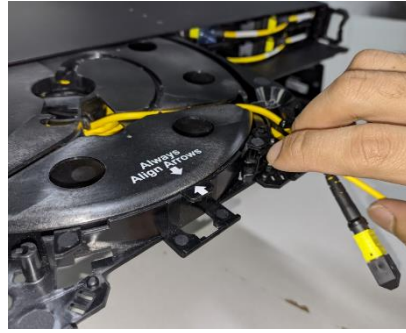
5.1.5 Rotate the spool to align the arrows labelled on the top of the spool and cassette, then Push the lock to hold the spool and cable in place

5.1.6 Partially return the cassette back into chassis, then get the MPO adapter holder w/ connected Fan-out and MPO Jumper inner end. Remove the Dust cap from the MPO Adapter and MPO Jumper Connector, then mate the Fan-out and MPO Jumper in the MPO adapter.
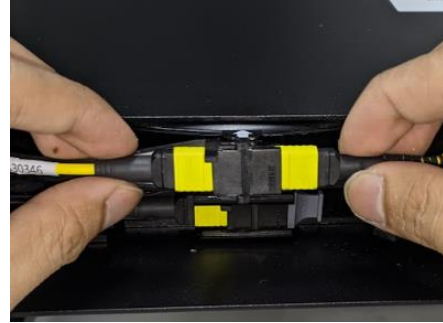
5.1.7 Put back the MPO Adapter holder in the back of spool cassette. Hang the MPO cable in the rear cable hanger

5.1.8 Repeat the process for the other cassette, then after the procedure put the rear cover back in the chassis.

6. Spooling Patch Panel Maintenance

Customer Information and Assistance

PHONE: 732-469-9650

WRITE:

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