Fibre**IRS**

Fibre **I**ntegrated **R**eception **S**ystems

dSCR GTU

global invacom
completing the picture

Technical Supplement
Introduction

The purpose of this guide is to enable the successful installation of the dSCR GTU as part of a Global Invacom FibreIRS Installation.
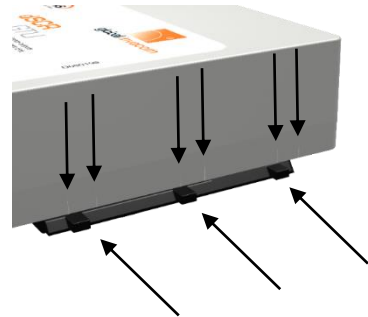
This guide assumes that:

- The GTU will be connected to a suitable Global Invacom FibreIRS Passive Optical Network (PON), providing minimum optical signal levels of -12.2dBm* at the connection point of the GTU.

- The GTU will be been installed in a dry indoor environment and mounted vertically with suitable fixings.

- The installation will be carried out by a competent person.

- All ferrule end faces of the FC/PC optical connectors are cleaned prior to making a connection using a suitable fibre optic cleaning kit.

- The installer has followed the installation guide for the ODU32 or optical LNB.

* Based upon launch output of +7dBm

Cable and Connections

- Cables used should be industry approved coaxial cable and should be terminated using an F type connector.

- Fibre optic cable should be Global Invacom approved single mode with FC/PC connections.

- When pulling pre-terminated fibre cables please ensure the connector is well protected, and that no force is applied to the end connector.

dSCR GTU (D000199)

Mount on wall via screw holes using appropriate fixings

Push cover onto unit in direction shown

Make sure cover side indicators are aligned with tags on unit.

Once aligned, push on fully and click cover downwards

To remove cover reverse the procedure

dSCR GTU (D000199)

Installation

- All fibre connectors should be cleaned prior to any connections being made.
- When connecting the fibre cable, align the key-way on the connector with the key-way on the fibre receptacle. Failure to do so will result in attenuation.

Correct orientation of units when mounted on a wall

LED

- The green LED will flash if no RF power is detected or if there is no optical power.
- The green LED will be constantly lit if RF power is detected.

Operation

- The unit must **<u>only</u>** be powered by the external power supply provided.

- Before powering on for the first time please ensure all cables are connected.

- On initial start up the unit may take a few seconds to calibrate, please allow 10 seconds before performing any measurements.

- Check levels/quality for both satellite and terrestrial using an appropriate meter.

- Once level/signal quality has been confirmed. The GTU should be connected to either a wall faceplate or direct to the receiving device.

Important –

- During operation the units may become hot. This is normal, but the installer is advised, where possible, to avoid locations where high ambient temperatures are expected.

- If there are any changes made to the optical network all GTU units connected should be power cycled to ensure correct operation.

- *Please ensure optical fibre is connected on first boot up as the GTU configures important features at this time.*

- *The cover <u>must</u> be fitted during normal operation.*