# Product Engineering Guide

OSM v20 Betatech v10

Introduction

The Betatech OSM links a Betatech Surveillance Mate Master Series Revision III matrix switcher to ObServer. The matrix switcher has a dual role; switching of video / audio, and control element of the entire video surveillance system. The Betatech OSM primarily allows control over camera / PTZ (Pan Tilt Zoom) / high speed domes and video monitors. Alarm inputs / outputs and some keyboard functions are also supported.
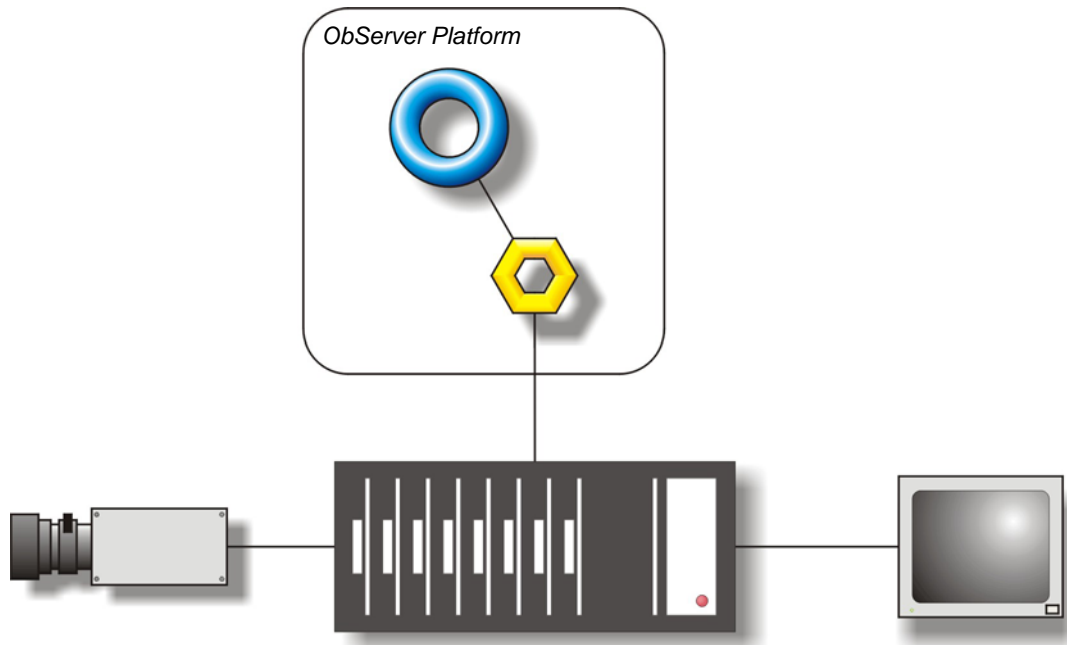
Supported Range

- Betatech Surveillance Mate Master Series Revision III matrix switcher – camera inputs can be controlled, alarm inputs read and outputs set
- Betatech Programmable Control Keyboard (PCK) – alarm can be triggered, label changed

Notes

The Beattech OSM has to assume that commands it sends are received by the Betatech system, as the Betatech system does not send any confirmation or acknowledgement to any write instruction.
The Betatech OSM does not report alarms to ObServer. If alarms are needed then an AlarmGen device will be required.
The Betatech OSM does not provide logging facilities to ObServer. If logging of values is needed then a LogMax device will be required.

Engineering

Step 1 – Install OSM

The Betatech OSM is installed automatically with all ObSys editions. Refer to the 'ObSys CD sleeve' for details on how to install ObSys.

Step 2 – Configure Betatech System

The Betatech system does not require configuring.

Step 3 – Connect COM Port to Betatech System

Using cable, connect the Betatech system to a COM port of the PC. Refer to the section 'Cable' below for details of the cable.

Step 4 – Plug in Betatech OSM to ObServer

Use object engineering software to locate the ObServer Setup object. Assign the Betatech OSM to an available channel. Refer to *'ObServer v20 Application Engineering Guide'.*

Note: After inserting the OSM, your engineering software may need to re-scan the ObServer object in order to view the OSM.

Step 5 – Configure Betatech OSM

The COM port, device label, alarm polling facilities, and alarm destination are configured using objects. Use object engineering software to view and modify the module objects within the OSM.
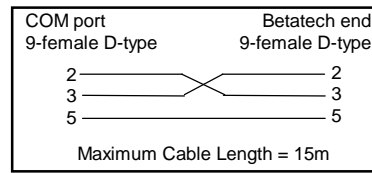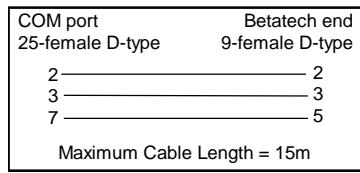
Step 6 – Access Objects within the Betatech System

Values from the Betatech system are made available as objects from ObServer. Any object software that is connected to the ObServer can access these objects.

Engineering Reference

Cable Specification

The cable between COM port and the Betatech 9-way D-type port, marked 'RS232 AUX' is as follows:

```
COM port                Betatech end
25-female D-type        9-female D-type
2 ───────────────────── 2
3 ───────────────────── 3
7 ───────────────────── 5

Maximum Cable Length = 15m
```

```
COM port                Betatech end
9-female D-type         9-female D-type
2 ───────────────────── 2
3 ──────────╳────────── 3
5 ───────────────────── 5

Maximum Cable Length = 15m
```

Objects

When the OSM is loaded the following objects are created within ObServer, use object software to access these objects.

Object[1]	Label	R/W	Type
S*c*	Betatech System connected to channel *c*	-	*[Betatech v10]*
M*c*	Betatech Module connected to channel *c*	-	*[OSM v20\Betatech v10]*

Notes

[1]   The ObServer channel number, *c*, is a number in the range 1…40.