

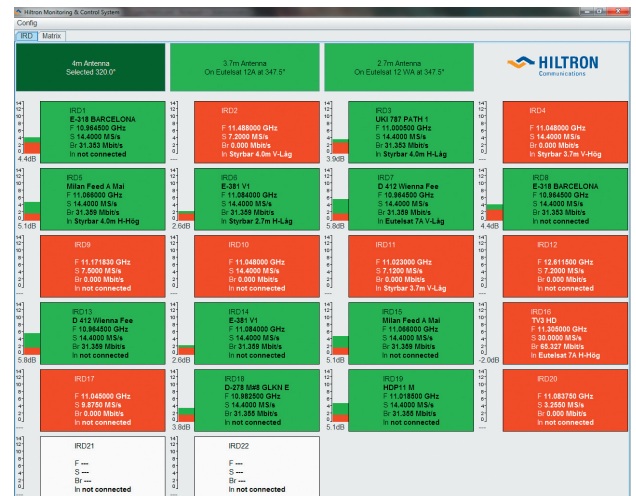
# HMCS-MCR - Monitoring & Control System

## Unique Solution for Master Control Room



**HMCS-MCR is a modular and scalable package of our universal M&C System. It is designed to control all relevant Satellite equipment in your MCR, optimized for occasional use applications.**

**The application is focused on providing user friendly control of different equipment for operators in Master Control Rooms.**



### Features

- ▶ All relevant information at one glance.
- ▶ Management of different Encoder, Modulator and HPAs.
- ▶ Interfaces to higher-level systems (SNMP, XML).
- ▶ Management of Tx and Rx chains including redundancy switching.
- ▶ Uniform management of different equipment same type (e.g. receivers with different versions).
- ▶ Selection and storage of different Satellite parameters (satellite position, beacon frequency, transponder/slots etc.) database supported.
- ▶ Database supported profiles for satellite reception (IRD settings).
- ▶ Database supported profiles for satellite transmission (Modulator, Encoder, HPA settings).
- ▶ Plausibility check and control (in case of wrong parameter settings).
- ▶ Selection of different sources via matrix.
- ▶ Management of motorized and fixed antennas.
- ▶ Logging of all processes, alarms, events.
- ▶ Logging of parameter and status data and graphical presentation.
- ▶ Customization.
- ▶ Platform-independent client / server system.

### Selected References

- ▶ Earth Stations: WDR Up-Link, Danish Radio, MTG, SES FO
- ▶ Subsystems: SES Antenna systems, SR
- ▶ SNGs: NDR, SWR, SR

The Hiltron HMCS software is completely hardware independent. The design is based on the longstanding practical experience and exchange with different customers.

It uses a modern graphical user interface with sophisticated alarm message handling and provides for example a highly intuitive and efficient way to perform a professional satellite line-up procedure.

It provides a quick manageable platform for equipment with the selection of stored profiles, transponders and slots from a database. It supports the operation of market leading HD encoder/modulator/receiver hardware together with Hiltron's own products (HCS, HMAM, HACU, HSACU ...). The system allows a uniform operation of different devices from different manufacturers. The flexible design means its functions, can be tailored easily to the customer requirement.

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**HILTRON**  
Communications

### Specifications

#### System Platform

Based on Java, running under all popular operating systems  
Such as Microsoft Windows, Apple, Linux

#### Drivers (Summary)

Antenna Control Unit

Hiltron HACU, HSACU,  
sat-nms ACU,  
Vertex ACU7200

Modulator:

Newtec NTC22xx, AZ110, M6100,  
Ericsson Voyager II,  
Ateme CM5000

Encoder:

Ericsson Voyager II,  
Ateme CM5000, CM4202

IRD:

Ericsson RX8200, RX1290, TT1260,  
Ateme DR8400

HPA:

CPI, Paradise, SpacePath

Up- / Downconverter:

Work, Peak, Miteq

Accessories:

ETL Victor L-Band Matrix,  
Hiltron HCS Redundancy Controller,  
NARDA NRA Spectrum Analyzer

#### Alarm Handling

Alarm messaging:

By color coding of equipment icons.  
Logging, Alarm Listing

#### Graphical User Interface (GUI)

Equipment

Color coded icons with display of  
the most important parameters.

Parameter setting

Lower level sub-menus.

Line-up

Separate intuitive line-up assistant.

Additional features

Spectrum analyzer display with a  
number of special macros

Example for Transmit Assistant

Example for Receive Selection