

Discovery

Console – tabletop unit

Characteristics:

Possibility of up to 12 simultaneously operating consoles, 4 different operator groups, bidirectional link-up to GrandMA, topographical studio view with consideration to the operator position, direct numerical selection by keypad, analog joystick for precise speed control, keyboard and mouse integrated in drawer

System:

OS: Windows XP Embedded

CPU: Intel ATOM, Hard Disk: CompactFlash

Display:

19 inches TFT-Touch Display DVI

Resolution: 1280x1024

2nd Monitor (VGA)

Interfaces:

Power Supply: 100-230V AC

Emergency stop switch and

dead man's handle

according to BCG V1

Ethernet: EtherCon RJ-45,

1x USB 2.0

Dimensions:

25.4 x 18.4 x 7.5inch (W x L x H)



Discovery Light

Console – 19 inches rack

Characteristics:

Possibility of up to 12 simultaneously operating consoles, 4 different operator groups, bidirectional link-up to GrandMA, topographical studio view with consideration to the operator position, direct numerical selection by keypad, trackball, function keys

System:

OS: Windows XP Embedded

CPU: Power efficient high-end embedded industrial PC, AMD

GeodeLX, Hard Disk: CompactFlash

Display:

6.4 inches TFT-Display

Resolution: 1024x768, LVDS

2nd Monitor (VGA)

Interfaces:

Power Supply: 100-230V AC

Emergency stop switch and

dead man's handle

according to BCG V1

Ethernet: EtherCon RJ-45,

1x USB

Dimensions:

19 inches 6 U



Storage for data and configuration

FileMaster

- All-purpose file and backup server
- Power efficient high-end CPU, embedded industrial PC, Intel ATOM
- Open source system (GNU General Public License)
- Based on EISFair Linux distribution
- Full extent of remote configuration and administration
- NAS supporting several file systems
- Server: Web, FTP, Mail, News, Name, DHCP, NFS
- Samba allowing file and print sharing with Microsoft Windows
- Also available with Microsoft Windows XP Embedded
- RAID system for data (RAID 0, 1, 5) with 2 x 2.5" hard disk drives 160GB

Frontally integrated in frame:

- Statistics reports
- Blue display indicating important system parameters
- 19inch 1 U, 9.1inch long



Remote management

ipMaster – Open source firewall

- Based on Linux firewall distribution IPCOP
- Flexible network configuration
- Full extent of remote configuration and administration
- WAN interface including DHCP client, PPPoE, PPTP, static IP
- VPN including IPSEC, X.509 certificates and integrated CA
- DNCP server
- DynDNS client
- DNS proxy cache
- Web proxy cache (Squid), also transparent
- IDS (Intrusion detection system) Snort
- Traffic shaping (QoS)
- Backup / restore configurations
- Modular concept
- Statistics reports
- Blue display indicating important system parameters



Lighting Control Area

Dimmer room

Wireless remote control

Bidirectional wireless remote control with emergency stop switch (AK5 / SIL3), full extent of manual mode control



Light console

Bidirectional link-up to the light console including 3D studio visualization

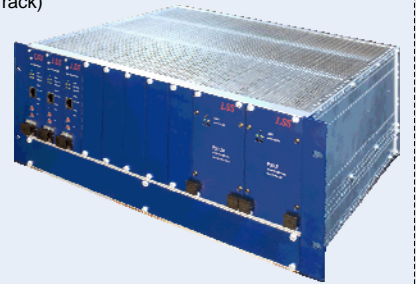


Electrical Enclosure for Fly system

- Emergency stop circuit
- Dead man's handle circuit
- Terminals for power rail supply

Rail controller (RC)

- Max. 8 RC per RC rack, max. 30 telescope controllers per RC (= 240 TC per RC rack)
- Standard light protocols are MANet, ArtNet, sACN, AVAP UTP, AVAP IPX
- Each RC can receive light data from up to 8 different universes
- It is possible to merge light data from up to 4 sources in one universe (HTP)
- When using power rails max. 10 ones can be cascaded
- Conductor systems can be used if necessary (Profibus cabling is possible)
- Light data will be transmitted via Profibus on the rail to the TC
- This data will be reconverted to real DMX data (ShuttleDimmer, Scroller, ML)
- Internal 3-phase power supply and 24VDC supply for rail couplers



Rail couplers

Conversion from Profibus to "Railbus"



LAPP UNITRONIC BUS-COMBI L2/FIP 7-wire 1x2x0,64+3x1

Power Rail System (max. 10 segments)

Ceiling

Rail end

Terminating resistor



Telescope controller (TC)

16x DI 24V:

- 0 Slack wire
- 1 Overload
- 2 Limit detector for highest position
- 3 Limit detector for lowest position
- 4 Telescope ready
- 5 Hoist motor overheated
- 6 Limit switch "grid"
- 7 Manual control (local)
- 8 Head switch UP
- 9 Head switch DOWN
- 10 Frequency converter active
- 11 Traction motor overheated
- 12 Dimmer malfunction
- 13 Grid level crossed
- 14 Blown fuse
- 15 Frequency converter malfunction

8x DO 24V

- 0 Set of parameters for frequency converter
- 1 Hoist motor contactor
- 2 Signal light
- 3 Traction motor contactor
- 4 Frequency converter – Reset
- 5 Frequency converter – left / down
- 6 Frequency converter – quick stop
- 7 Frequency converter – right / up

4x AI 0-10V

- 0 Potentiometer for vertical adjustment
- 1 Position measuring via potentiometer (optional)
- 2 Load measuring (optional)
- 3 Free to use

1x AO 0-10V

- 0 Frequency converter control

4x RS-485

Joke interfaces: "Licht-Technik" or "De Sisti", Absolute position encoding system "WCS3" (horizontal)

SSI encoder (vertical)

DMX-Out 1: opto-isolated DMX-Out for dimmers

DMX-Out 2: opto-isolated DMX-Out for scrollers, movinglights

Field of Application: telescopes, lighting hoists, chain hoists

- Ethernet
- Profibus
- Profibus (Railbus)
- USB
- Emergency stop circuit
- Dead man's handle circuit

Discovery

Telescope-Studiokonfig
Rail System

LSS

gez.: MK

Stand 08/2010