

ARRI®

LIGHTING

REFLEXION

Universal backup
console



- Backup for any DMX512 output console
- High speed – no perceptible delays
- 12 submaster faders and bumps
- 5 pages of overlapping memory (60 states)
- Step-free page changing
- DMX input master
- Input freeze feature
- Live or blind recording
- 12 analogue inputs
- Audible error warning signal
- Expansion options up to 2048 dimmers

Reflexion is a new concept in security for any lighting control system with DMX512 digital output. The Reflexion console can copy and store any lighting state into its 60 submaster memories. The 12 submasters may be used at any time – handover and page changing are completely seamless.

Reflexion monitors the DMX output from the main lightboard and automatically isolates it in the event of a DMX or console failure, preventing unpredictable lighting effects!

Reflexion can be used to control house, work and rehearsal lights, and to add submasters to any DMX console. It can even be the nerve centre of an architectural lighting scheme.

ARRI Reflexion – an essential element in any DMX lighting control system.

Reflexion is a totally new concept in security for any lighting control system with DMX512 digital output.

Reflexion constantly monitors the DMX signal from the main console, and passes it through to the dimmers. Should the DMX input fail, Reflexion continues to use the last good data received from the main console, and sounds a warning that a fault has occurred. Using the input master fader, the operator can then carry out a crossfade to any of the 60 backup memories, and continue the show on Reflexion. No-one but the operator will know there's been a problem.

Reflexion offers protection against momentary power cuts. If power fails in the control room long enough to cause the main console to reset, Reflexion automatically reboots in freeze mode, with no DMX output to the dimmers. The last output state is maintained by the dimmers' DMX receivers. When the console reinitializes, Reflexion may be unfrozen, and the show continued without a hiccup.

Reflexion handles one DMX stream – that's up to 512 dimmers. If that isn't enough, slave processors may be added, to increase the capacity to a maximum of 2048 dimmers. Reflexion is fast. DMX is passed through within the same frame – there's effectively no delay at all – and Reflexion automatically synchronises itself to the data rate

and number of dimmers of the main system. Any or all submasters may be piled on to the DMX throughput on a highest takes precedence basis, without affecting the system's speed.

And Reflexion has other uses: its 12 analogue inputs allow it to be used as an auxiliary control system for house and worklights.

Specification

DMX Input

- One optically isolated USITT DMX512 (1990) input, for up to 512 dimmers
- Optional expansion to max 2048 dimmers
- Good Data led indicator
- Automatic freeze/warning signal when bad data detected
- Input master fader proportionally masters input levels
- Input freeze function freezes current DMX input levels to allow blind recording

Submasters

- 12 submaster faders, with associated bump switches
- Fully overlapping submaster memories
- 5 pages of submaster memory
- Seamless page change feature
- Submasters may be used to pile on to main console output
- 12 submaster led indicators show submaster recorded or active on non-current page
- Blind record function
- 10-year battery-backed memory

Fault Handling

In the event of bad or missing DMX input being detected, Reflexion automatically freezes the last good packet of DMX in its input buffer, and sounds a warning tone. The operator may carry out a manual crossfade between the frozen DMX input fader and any submaster fader, and continue the show on Reflexion's submasters. When good data is restored, the operator may 'unfreeze' the DMX input, crossfade seamlessly to the new input state, and continue the show.

Analogue Inputs

12 analogue inputs are provided, functionally in parallel with Reflexion's 12 submaster faders. Plus 10Vdc, input impedance 100kΩ.

DMX Output

- Up to 512 (optionally up to 2048) optically isolated outputs to USITT DMX512 (1990)
- Output auto-synchronises to input DMX rate

System Delay

Throughput delay is one DMX level instruction. This might be expressed as 1/512 of 1/44 second, where 512 dimmers are being handled at a typical 44Hz refresh rate

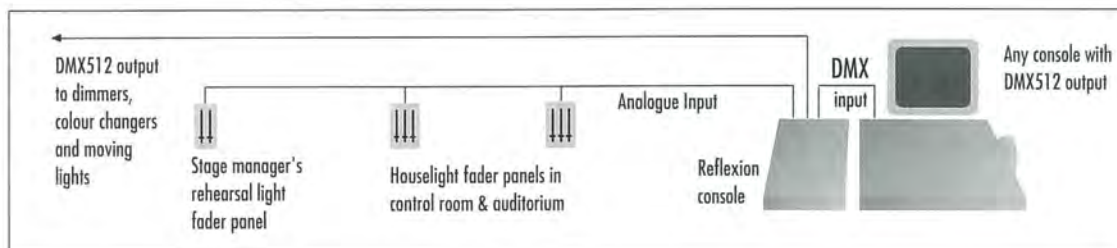
Size and Weight

- 220mm wide x 260mm deep x 95mm high
- 4.0kg

Electrical

- 100-250Vac (internal jumpers)
- 25 watts max

A typical Reflexion system, showing houselight and rehearsal light fader panels connected to Reflexion's analogue inputs



In order to maintain the highest possible standards, ARRI (GB) Ltd reserves the right to alter specifications without notice

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