













ARRI®

LIGHTING

IMPULS 2

108 channel/submaster
lighting control
system



-  108 channels, 512 dimmers (DMX512)
-  108 channel/submaster faders
-  2 submaster pages
-  2 auto/manual playbacks
-  Powerful effects package
-  Channel control wheel
-  200 cues per show, 2 shows per disc
-  HELP and online operator prompts
-  Macro functions
-  8 remote macro functions
-  Wired or infra red remote control options
-  Designer Graphic Tablet option

When it has to be hands on, it has to be Impuls 2! This powerful showboard has a stylish console and some great new software functions, keeping it well ahead of the pack.

Impuls 2 is a unique fusion of computerised and manual lighting control – all of the power and sophistication of the classic ARRI Imagine, with 108 channel/submaster faders for intuitive manual operation and lightning fast cue writing.

Impuls may be used with the ARRI Designer Graphic Tablet, for slick, quick control of many moving light systems and colour changers.

Impuls 2 is a natural choice for production studios, tours and rental houses, where its flexibility and ease of use will score top marks with operators day after day, show after show.

Controlling scrollers and moving lights

Nowadays it's not enough just to be an outstanding controller of moving lights – you have to be able to handle any kind of DMX device, be it a smoke gun, a colour changer or a bank of moving lights. All these things can theoretically be controlled by any DMX output lightboard. Reality, however, can be

different – programming a moving light sequence with a keyboard and a wheel is incredibly hard to do, and is guaranteed to take hours on end. The main problem is remembering which channel is controlling which function of which moving light. Assuming that you have an elephantine memory, you still have to key the channel numbers in for every adjustment.

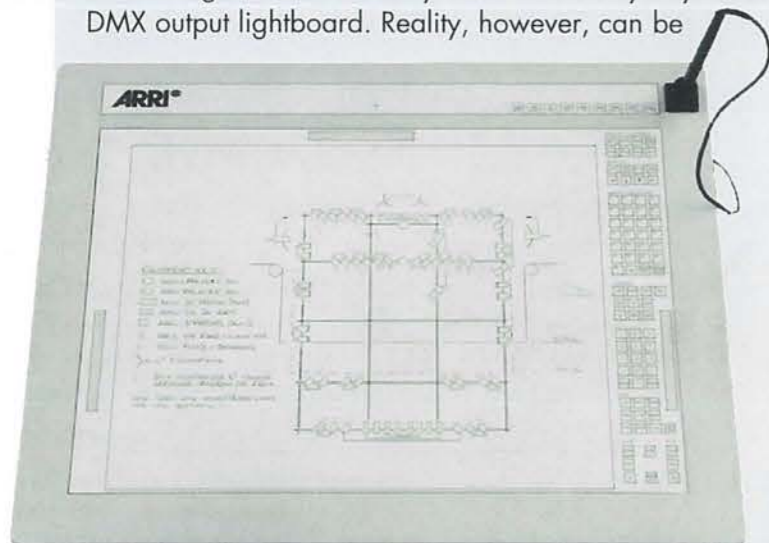
The ARRI Designer's Graphic Tablet (DGT) solves this problem elegantly, by allowing you to create a custom graphic control panel, in which you lay out the functions on a paper overlay, in whichever way suits you best. Then simply touch the desired function with the magnetic stylus, and you have it under control, without ever again needing to know the channel numbers concerned.

For lighting designers – people who think in pictures – there are other advantages. Gobo selections can be made by pointing at thumbnail sketches of the patterns in the show, colours by touching the stylus to coloured blocks.

When controlling large numbers of colour scrollers, the DGT comes into its own; scrollers may be selected individually or in predetermined groups, and their colours set instantly by touching the colour on the tablet. Since only one touch of the stylus is required to select the group, and one more to select the colour, ARRI's DGT offers dramatic savings in plotting time.

Basic Impuls 2 consoles support 12"x12" tablets with up to 125 definable regions (macros). With the expanded memory option fitted, which also supports alpha text labels for shows, cues, submasters and groups, a 17"x12" Designer's Graphic Tablet may be used, with up to 640 regions.

And the DGT makes a great stalls desk. Since it may be used up to 1km from the console, with a remote monitor, the LD can work happily over a rehearsal, blocking in or adjusting conventional or moving light cues with a speed that's truly remarkable.



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Impuls 2 succeeds at many levels. In a rental operation or facilities studio simple shows can be operated by anyone, with just a few minutes' instruction. The next show might be a complex drama, requiring all the power of a top line memory console. Or a rock concert. Or an industrial. There's no limit to the flexibility of Impuls 2.

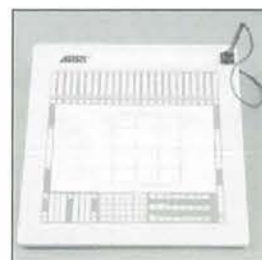
And what a touring board. Full hands-on control of lights, and instant programming of colour changes and moving lights, using the Designer's

Graphic Tablet. Powerful effects system with manual playback options. Infra red remote control on stage for setup and focusing. MIDI implementation to synchronise with music and other MIDI devices. Remote macro operation and RS232 port for remote control by computers and other external devices.

A Reflexion console makes a great backup for Impuls 2. And two Impuls 2 consoles may be linked together for tracking backup or for larger shows.

Impuls 2

- 108 channels
- 108 submasters
- 512 dimmers



Designer's Graphic Tablet
12"x12" (illustrated) or 12"x17" (see above), which requires expanded memory



Alpha Keyboard
Keyboard for text entry – requires expanded memory



Reflexion
Backup console with 60 backup memories for extra security



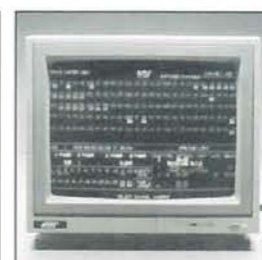
Infra Red Handset
Handheld remote works with cable or infra red receivers at up to 40m range



Infra Red Receiver
Networks of up to eight IR receivers may be configured for all sizes of venue



Wired Remote
Connexion Remote Control Unit, with 36 functions and large display



Remote Monitor
12" monochrome monitor for use in a remote location



Output-Module
Receives Impuls 2's DMX512 digital output and drives 32, 64 or 96 analogue dimmers



Printer
High quality dot matrix printer for a wide range of hard copy reports



ETC Edit
Prepare shows on your PC and swap data between any ARRI console or text files

There's not much you can't do with an ARRI Impuls 2 – whether for theatre, TV, rental or multi-purpose venues, Impuls has a unique ability to be the right board at the right time. Check out the specification below, then prove the system with a hands-on demonstration from your ARRI dealer.

Memory Capacity

- 108 channels
- 200 cues per show
- Two pages of 108 submasters
- Two shows per disc
- Proportional softpatch of up to 512 DMX512 dimmers
- 10 assignable dimmer profiles
- 125 (640 with expanded memory) macros or Designer Graphic Tablet regions
- Text labels (with expanded memory) for shows, cues, submasters and groups
- Battery support of memory when powered down
- Real Time Clock to program up to ten events at specific times/days of the week

With plenty of spare dimmer capacity, Impuls is ideal for controlling mixed rigs, including DMX controlled colour changers and moving lights.

Display Functions

- One TTL video output for colour or mono monitor
- One RS-170 video output for remote mono monitor
- Display modes - output - blind - fader - softpatch - track sheet - setup - help

Impuls drives colour and mono monitors in parallel, so you can work with a colour monitor in the control room, and a mono monitor in the auditorium or dimmer room.

Channel Control

- 108 channel control/submaster faders with associated bump switches and channel/submaster mode selector switches
- Digital Fader wheel with tactile feedback for proportional control of channels and groups
- AND, THRU, EXCEPT, FLASH and SOLO functions for selection of channels
- DIMMER function for selecting and working with individual dimmers
- AT intensity function
- User-definable ON function to set channels to pre-set reference level
- RELEASE function to restore captured channels

With faders or the keypad, either way Impuls's clear and ergonomic channel control layout makes cue writing and editing simple, clear – and very fast.

Cue Functions

- Cue selection for cue numbers 0.1 to 999.9
- Clear cues function
- Discrete UP, DOWN and WAIT fadetimes for each cue
- Multistep cues with up to eight concurrent fades, each with its own Up, Down and Wait times
- User definable default fadetimes
- LINKed cue loops and sequences

Submasters

- 108 channel/submaster faders with associated bump switches
- Fully overlapping submaster level memories
- Two pages of submaster memory per show
- Seamless page change function
- Up to 36 submasters may optionally be used as inhibitive submasters

The 216 available submaster memories may be used to improvise manual shows, or as building blocks for complex cue sequences.

Playbacks

- Two timed/manual fader pairs, allowing playback of two separate cue and effect sequences
- 0.1 second to 99:59 minute fadetimes
- Manual operation or override of UP and DOWN fades
- Choice of level or rate override modes
- Crossfades, split-time, multistep and pile-on fades, plus effects playback with manual rate and level control
- Back and manual reverse functions
- Blackout function
- Grand Master fader

Effects

- Up to 200 effects, recordable as cues for automatic or manual playback

Interfaces

- Parallel printer interface
- Serial (RS232C) interface, for serial printer or remote operation from PC or other RS232 source. Also allows two Impuls 2 consoles to be used together in redundant tracking mode
- MIDI in, MIDI out
- Remote macro connector, allowing control by external contact closures of eight macros

System Options

- Designer Graphic Tablet with 12"x12" or 17"x12" area
- Alpha text keyboard
- Infra red remote control interface card
- Connexion Output Modules to receive DMX512 digital dimmer data and output 32, 64 or 96 analogue signals at output voltages, up to + or - 12.5Vdc
- Internal memory expansion card, required for alpha text storage, 17"x12" graphic tablet and 640 macros
- Wired/IR handheld remote control unit
- Wired only remote control unit
- Infra red receiver unit
- Remote 12" mono monitor
- System printer
- Reflexion backup console

Redundant Tracking Backup

- Two Impuls consoles may be linked together so that one mimics the function of the other, for complete performance backup of critical events

MIDI

- Cue and submaster playback codes may be received or transmitted by Impuls to or from any suitable MIDI device
- Any ARRI Impuls, Mirage or Imagine consoles running MIDI software may be linked together to synchronise cues for complex shows

Size and Weight

- 1118mm long x 388mm deep x 153mm high
- 21.5kg

Electrical (console)

- 100-250Vac, 50/60Hz auto ranging
- 60 watts max.

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

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