

Luxel V-6 CTP

B2 4 page Violet CTP



Image Output CTP

A platesetter that delivers quality & affordability



The Fujifilm Luxel V-Series range of Violet platesetters is transforming today's pre-press industry. The addition of the Luxel V-6 CTP to the series is an exciting development designed to satisfy the specific needs of B2 4 page printers.

The Luxel V-6 CTP is a high quality and affordable solution that compliments your existing technology. Designed and optimised for Fujifilm Brillia LP-NV photopolymer plates, Luxel V-6 CTP boasts a new dedicated B2 processor, affordable RIP and various levels of plate handling automation.

As B2 printers are faced with increasing competition and reduced margins, the pressure is on to find an economic, scalable CTP device to suit their ever-changing demands. The Luxel V-6 CTP is designed to be highly flexible and upgradeable. As your customers' demands for fast turnaround and volume of work grow, the Luxel V-6 CTP can grow with you.

Affordability is no longer a trade-off against quality. Luxel V-6 CTP has a composite drum that, coupled with Fujifilm's custom built laser pen, gives you highly accurate images and the highest quality output that you come to expect from Fujifilm. Violet photopolymer CTP plates can be handled under bright yellow safelight, making it practical to have a semi-automatic or manual platesetter, bringing cost and space savings. Better still, the Luxel V-6 CTP operates using a single custom built violet laser pen with a life of over 5000 imaging hours, giving large cost savings compared with multiple laser arrays used in thermal devices. The savings are not only on initial purchase prices, but long-term servicing, laser replacement and daily running costs are dramatically reduced too.

The Range

Manual

- Manual plate feed
- Manual plate removal

Semi-Automatic

- Manual plate feed
- Automatic processing

Single Cassette Fully Automatic

- Automatic plate loading
 - Up to 120 plates per cassette
 - Automatic cassette identification
 - Manual plate loading slot (optional)
- Automatic interleaf removal
- Automatic plate processing



As your customers' demands for fast turnaround and volume of work grow, the Luxel V-6 CTP can grow with you



Single Cassette
Fully Automatic

Product Features

Low Cost of Ownership

- High quality, affordable B2 4 page Violet CTP system
- Single laser Violet optics
- All of the advantages of Fujifilm Violet laser replacement, maintenance and warranty costs

Modular / Flexible

- Fully upgradeable from manual through to automatic configuration
- Manual load slot, single plate feed option for automatic configurations
- Additional upgrade options:
 - Punch
 - MMI (user interface)
 - Additional resolutions (choice of up to 8)
- New small minimum plate size option (320 x 290mm landscape, 279 x 381mm portrait)
- Handles a variety of plate sizes & plates gauges 0.15mm, 0.2mm, 0.24mm and 0.3mm

Quality

- Internal composite drum for image accuracy, repeatability and registration
- Fujifilm manufactured laser pen for optimum optics performance
- High resolution output up to 3657dpi & line screens up to 200lpi
- AM, FM and Co-Res SCREENING

Speed and Productivity

- Produces up to 35 B2 plates per hour (at 1200dpi)
- Single cassette automatic configuration with up to 120 plate capacity
- Maximum 765 x 686mm plate size
- Images to within 2mm of the plates lead edge
- Dedicated processor
- Optional in-line punching, with no punch shadow

Violet CTP visibly better



Luxel V-6 Automation

In Fully Automatic configuration, daylight operation of the CTP device is achieved through the use of the newly designed Single Cassette Autoloader. A number of uniquely identifiable cassettes can be held offline housing different sized plates, ready to load via a wheeled trolley as and when your production dictates. The cassette fits into the light-tight slot and automatically releases plates when called by the engine. The plate passes through the Plate Transfer Module (PTM) where the interleaf is removed and the plate moves into the engine.

The Single Cassette Autoloader option allows for operator free production. Should an emergency job suddenly take priority that requires different plate sizes, the optional Manual Load Slot allows quick intervention by an operator, while still leaving the cassette fixed on-line.

In manual configuration, the plate is then taken from the engine and passed through an offline processor. Should you choose the Semi-Automatic version, your plates are automatically fed to the dedicated processor for even quicker delivery of plates to press.

Luxel V-6 Engine

Using the existing award winning optics technology from the V-series family, the V-6 system produces the high quality results you would expect from Fujifilm. Powered by its dedicated single laser unit coupled to a high-speed 40k rpm spinner, the V-6 is capable of producing up to 20 B2 plates per hour @ 2400dpi and 35 plates per hour @ 1200dpi.

The highly successful internal drum architecture is employed again with Luxel V-6 CTP using composite technology. This delivers a cost-effective solution that offers no compromise on quality over traditional machining technologies whilst delivering exceptional thermal stability.

Processor

The dedicated processor has been matched in terms of performance, productivity and connectivity to provide a balanced system that also feeds back processor status to the PC based RIP or optional MMI, keeping you fully informed of your plate production status.

Used in conjunction with Semi-Automatic or Fully Automatic systems, the processor is mated to the back end of the V-6 engine via a bridge. In manual configuration, an input table option is available.

The processor can also be configured with any commercially available plate stacker.



Operator Interface

There are two modes of user interface on offer for Luxel V-6 CTP. The standard interface is a PC based solution that provides total workflow control and feedback from just one unit.

A second option in addition to your RIP platform is an engine-mounted, icon-driven MMI. This unit is safelight and daylight compatible, providing localised fingertip control and intuitive engine data for quick response to your ever-changing needs.

Luxel V-6 Upgrade Options

Configuration	Description
Manual to Semi-Automatic Configuration	Converts a manual system to a semi-automatic system (available as a field upgrade)
Semi-Automatic to Fully Automatic Configuration	Converts a semi-automatic system to a single cassette fully automatic system (available as a field upgrade)
TAFFETA20 FM screening	Provides ability to output FM screens (available as a field upgrade)
Co-Res SCREENING	Provides ability to output Co-Res SCREENING (available as a field upgrade)
Punch	Provides ability to have internal punching (available as a field upgrade) Punch types can be exchanged in the field
Additional resolutions	Choose from: 1200, 1219, 1270, 2400, 2438, 2540, 3600 or 3657dpi - two supplied with engine as standard (customer choice) (additional resolutions available as a field upgrade)
MMI (user interface)	Provides full MMI user interface, base units will have PC RIP operation (available as a field upgrade)
Minimum plate sizes below 350 x 350mm	Provides ability to image plates down to 279 x 381mm portrait and 320 x 290mm landscape (this will be available as a factory fit option only)
Additional cassettes	Additional cassettes and trolleys will be available to purchase at time of order or once installed A maximum of 5 cassettes are supported, each will have automatic identification
Manual load slot	Available for plates above 350 x 350mm only Provides ability to image single plates in automatic system while cassette is online The manual entry slot must be used in conjunction with the MMI interface option (this will be available as a factory fit option only)
FireWire Repeaters	Available to extend the data path connection between the engine and the RIP workstation Any commercially available IEEE-1394 repeater is suitable

Celebrant Lite for Luxel V-6 CTP



Celebrant Lite V-6 RIP has been designed in conjunction with the Luxel V-6 CTP to provide an integrated solution which is optimised for quality and performance.

Using the latest Adobe CPSI RIP, a Job Ticket driven Workflow and client server architecture, ensures that you can automate your workflow and monitor its progress from the desktop. The result is a complete solution for today's prepress which can be easily enhanced as your business grows.

RIP and Workflow

Fujifilm offer a wide range of RIP and Workflow solutions that can be scaled to meet your needs in terms of functionality and platform performance. Third party workflows can also be used to provide data to the Luxel V-6 CTP via Fujifilm Celebrant Gateway which spools the file to the platesetter.



Celebrant Suite

Fujifilm's Celebrant Suite provides a modular product which can be configured to provide a range of solutions from a simple print spooler to a full prepress production system.



Celebrant Extreme - A production system for managing the output of imposed pages to proof, film and plate. Streamlines the production process by providing Documents Preparation (Primer), Automatic Imposition and integrated Adobe RIP with trapping. The ability to configure processing across multiple platforms is also enabled.



Celebrant RIP - Fujifilm's advanced raster image processor providing Job Ticket driven workflow, Adobe CPSI RIP with integrated viewer and archiver. A range of options are available to allow custom configuration.



Celebrant Gateway - Allows 3rd party workflows to include Fujifilm imagesetters and platesetters within their workflow. Options for imposition and proofing can allow the creation of a 1 bit TIFF automated workflow.



Celebrant Primer - Provides a complete Document Preparation station. Workflow includes an Adobe Normaliser, for conversion of PostScript to PDF, Enfocus Action List to automatically edit PDF, Font Embedding, Colour Management, Trapping and Preflighting using Enfocus Pitstop Libraries.

Benefit from the Violet advantage

Low Cost of Ownership

Affordability is no longer a trade-off against quality. Luxel V-6 CTP has a composite drum that, coupled with Fujifilm's custom built laser pen, gives you highly accurate images and the highest quality output that you come to expect from Fujifilm.

Fujifilm's laser pen boasts a life of over 5000 imaging hours – that's five years of typical use – giving large cost savings compared with multiple laser arrays used in thermal devices. These savings are not only on initial purchase prices, but long-term servicing, laser replacement and daily running costs are dramatically reduced too.

A guiding principle in the design of the Luxel V-series is simplicity. Our manufacturing standards are the highest to ensure that Luxel Violet platesetters keep working reliably and predictably, plate after plate. By designing down the number of parts, system stability is enhanced.

Fujifilm's commitment to providing world class CTP is proven by the Luxel V-Series – it delivers unquestionable quality and reliability, market leading productivity and outstanding value for money over the life of the system.

Higher quality, easier to print

Fujifilm has a long history of providing high quality screening for its imagesetters and platesetters. Unlike flatbed technologies, Fujifilm's internal drum architecture enables a wide range of dot shapes and screen angles using both revolutionary AM and new generation FM screening. Our range of products allows you to choose the most suitable screen on a job by job basis.

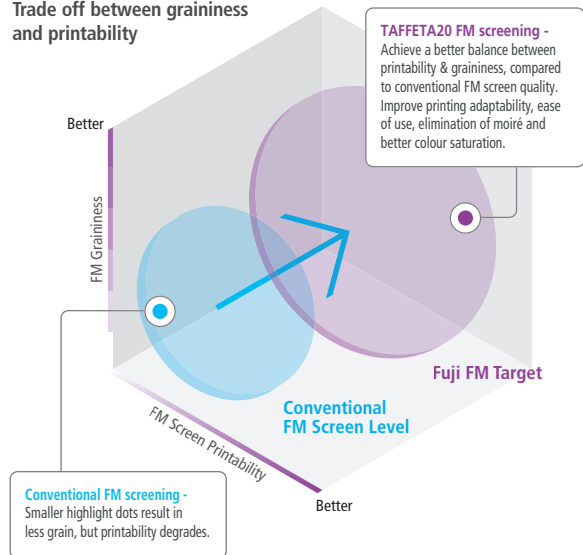
Co-Res SCREENING

The ultimate in AM screening technology, delivering balance between printing ease and high resolution plus higher productivity.

Co-Res SCREENING (Common Resolution Screening) is a screen product that enables the output of high screen rulings using low output resolutions. When used with the Luxel V-series range, at 1200dpi, it offers quality of 175lpi printing equivalent to 2400dpi output, which results in boosting productivity of Luxel V-6 CTP from 20 plates per hour (B2) to 35 plates per hour.

- Superior image depth due to improved density range
- Smoother flesh tones, tints and gradations
- Superior highlight tone reproduction
- Ability to run higher ink density settings

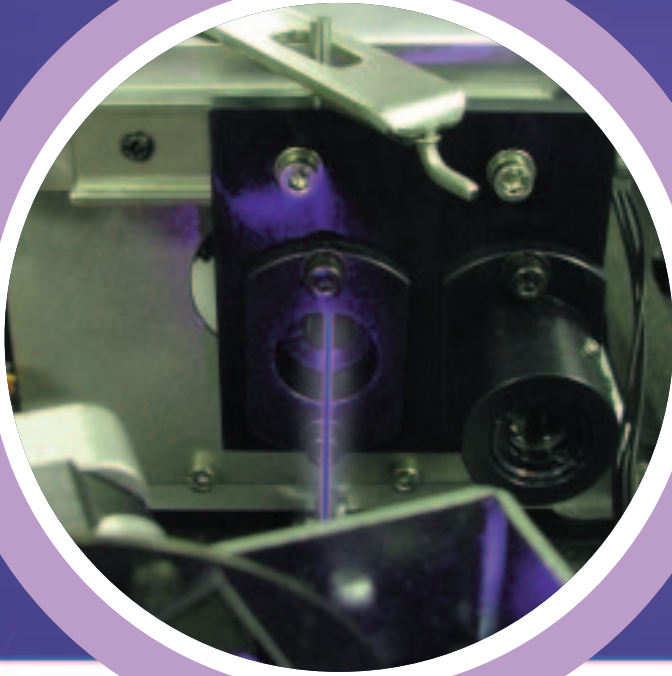
THE AIM OF FUJIFILM TAFFETA20 Trade off between graininess and printability



TAFFETA20

New generation FM screening technology adds value with the complete elimination of moiré, and better colour saturation. TAFFETA20 FM screening goes further than ordinary FM screening by reducing unevenness and graininess and also improved printing adaptability.

- Moiré and rosette are completely eliminated
- Improved saturation
- Improved image detail reproduction
- Supports 5+ colours, multi-colour printing
- Reduces waste
- Improved texture



Fujifilm's laser pen boasts a life of over 5000 imaging hours – that's five years of typical use – giving large cost savings compared with multiple laser arrays used in thermal devices

The Violet plate

A Luxel Violet platesetter is just part of the CTP equation. Fujifilm has a wealth of expertise in the field of reprographics that encompasses all the consumables and workflow systems needed to provide a complete turnkey solution.

Choosing the right RIP and Workflow to manage incoming files is as important as the machine itself, as is the choice of plates and chemistry. To complement its Violet platesetters, Fujifilm Brilia LP-NV photopolymer plates provide consistent press performance on run lengths of up to 200,000 impressions or 1 million when baked. The plate has a developer with improved resistance to pressroom chemistry, increasing developer life and reducing sludge. The plate is rated for 2 – 98 per cent at up to 200lpi.

Fujifilm provides a totally integrated system to ensure that your new CTP system works the way you want it to from day one.

Service, Training and Support

At each stage of Fujifilm's history, its creative efforts have been geared to innovate so as to meet both the immediate and future demands of its customers. This approach has kept Fujifilm at the leading edge of all its areas of expertise for the past seven decades.

When you buy into Fujifilm you become a member of a global family. You benefit from the investment that Fujifilm puts into worldwide customer support. The Fujifilm infrastructure ensures that your business is always productive, always efficient and most importantly, always producing a return on your investment.

Fujifilm is dedicated to providing you with the peace of mind you need to concentrate on your own business. Fujifilm's global network of local engineers are intensively trained to the highest standards at our dedicated teaching facilities.

By choosing Fujifilm you are ensuring that you will always be competitive, at the cutting edge of the industry and always supported as part of a global imaging family.

Violet – The future of CTP

Violet technology has gone from strength to strength with more platesetters now using the low cost, low power diodes than ever before. Newspaper and B2 markets in particular are dominated with Violet laser devices due to their leading productivity, low cost of ownership and high quality.

So where is the future now for Violet diodes, and how will they impact the CTP market?

Violet diode lasers are being constantly driven by the demand of the consumer DVD market. Ever growing DVD writer sales are pushing for yet higher powered lasers to enable more data to be burnt to media, whilst still maintaining low costs. Dramatic announcements in the development path for Violet diodes are now clear and as the 5mw diodes moved to 30mw, we are now seeing 60mw and 100mw with 200mw expected in the next few years.

Future benefits are clear, productivity, quality and cost improvements coupled with likely increases in laser life. Productivity improvements are possible due to the sensitivity of Violet plates, only small increases in power are required for greater imaging speed. As power increases so does the potential to create sharper dots. Costs of lasers have begun to reduce in comparative terms, and laser life has increased. As the laser powers increase, the opportunity for process-less and other new technologies become a more realistic option for the future.

Violet technology has come a long way in the last 5 years and it is expected to continue with even more pace over the next few years.

Specifications

Landscape			
Plate Thickness/Gauge	0.15mm/0.006"	0.2mm/0.008" - 0.24mm/0.010"	0.3mm/0.012"
Max. plate size	525 x 459mm (20 ²¹ / ₃₂ " x 18 ¹ / ₁₆ ")	765 x 686mm (30 ³ / ₃₂ " x 27")	765 x 686mm (30 ³ / ₃₂ " x 27")
Min. plate size*	320 x 290mm (12 ¹⁹ / ₃₂ " x 11 ¹³ / ₃₂ ")	320 x 290mm (12 ¹⁹ / ₃₂ " x 11 ¹³ / ₃₂ ")	320 x 320mm (12 ¹⁹ / ₃₂ " x 12 ¹⁹ / ₃₂ ")
Max. imaging area	521 x 455mm (20 ¹ / ₂ " x 17 ²⁹ / ₃₂ ")	761 x 682mm (29 ¹⁵ / ₁₆ " x 26 ²⁷ / ₃₂ ")	761 x 682mm (29 ¹⁵ / ₁₆ " x 26 ²⁷ / ₃₂ ")
Min. imaging area	316 x 286mm (12 ⁷ / ₁₆ " x 11 ¹ / ₄ ")	316 x 286mm (12 ⁷ / ₁₆ " x 11 ¹ / ₄ ")	316 x 316mm (12 ⁷ / ₁₆ " x 12 ⁷ / ₁₆ ")

Portrait				
Plate Thickness/Gauge	0.15mm/0.006"	0.2mm/0.008"	0.24mm/0.010"	0.3mm/0.012"
Max. plate size	459 x 459mm (18 ¹ / ₁₆ " x 18 ¹ / ₁₆ ")	500 x 686mm (19 ²¹ / ₃₂ " x 27")	500 x 686mm (19 ²¹ / ₃₂ " x 27")	500 x 686mm (19 ²¹ / ₃₂ " x 27")
Min. plate size*	279 x 381mm (10 ³¹ / ₃₂ " x 15")	279 x 381mm (10 ³¹ / ₃₂ " x 15")	279 x 381mm (10 ³¹ / ₃₂ " x 15")	279 x 381mm (10 ³¹ / ₃₂ " x 15")
Max. imaging area	455 x 455mm (17 ²⁹ / ₃₂ " x 17 ²⁹ / ₃₂ ")	496 x 682mm (19 ¹ / ₂ " x 26 ²⁷ / ₃₂ ")	496 x 682mm (19 ¹ / ₂ " x 26 ²⁷ / ₃₂ ")	496 x 682 mm (19 ¹ / ₂ " x 26 ²⁷ / ₃₂ ")
Min. imaging area	275 x 377mm (10 ¹³ / ₁₆ " x 14 ¹³ / ₁₆ ")	275 x 377mm (10 ¹³ / ₁₆ " x 14 ¹³ / ₁₆ ")	275 x 377mm (10 ¹³ / ₁₆ " x 14 ¹³ / ₁₆ ")	275 x 377 mm (10 ¹³ / ₁₆ " x 14 ¹³ / ₁₆ ")

*Minimum plate size requires small plate option

Resolution DPI	Imaging Speed cm ² /min	Imaging Speed in ² /min	B2 Plates/hr
1200	5808	900	35
1219	5716	886	35
1270	5488	850	35
2400	2904	450	20
2438	2858	443	20
2540	2744	425	20
3600	1935	299	16
3657	1905	295	16

Multiple Media Supply

Single Cassette Automatic configuration:

- Up to 120 plates per cassette (0.15mm)
- Auto cassette identification
- Auto interleaf removal
- Option Manual plate loading slot

Semi-Automatic & Manual configuration:

- Single plate feed
- No interleaf removal

Imaging

- Patented, Violet laser technology
- High speed spinner control
- Semi-conductor laser @ 405nm

User Interface

- Intuitive, easy to use touch screen controls engine mounted touch screen
- P.C. based user interface

Rip/Workflow Support

- Choice of RIPs
- Celebrant Suite
- Valiano ROOM (Rampage)

Punching (Optional)

- On-line, lead edge punching options
- All leading punching options plus custom

RIP - Recorder Interface

- Firewire (IEEE 1394)

Processor

- Integrated High Speed processor (For automatic & semi-automatic configurations only)

Image Quality

- Class leading Image Quality
- Fujifilm Quality Screening
- 50 to 200ppi screen rulings
- Adobe Accurate Screening
- Co-Res Screening

Media Type

- Fujifilm Brillia LP-NV photopolymer Violet aluminium plate
- 0.15mm to 0.3mm thick

Environment

- Optimum operating range
Temperature: 23°C +/- 2°C
Humidity: 55% +/- 5% non condensing

Electrical Requirements

230 +/- 10% VAC 47/63Hz single phase
16Amps
Heat output – 7846 BTU/hour

Dimensions*

Fully Automatic configuration (incl. processor)

- Height: 1100mm (43 ⁹/₃₂")
- Width: 1580mm (80 ¹³/₁₆")

- Length: 5915mm (233")
 - Weight: 1700Kg (3748lb)
- Semi-Automatic configuration (incl. processor and trolley)
- Height: 1100mm (43 ⁹/₃₂")
 - Width: 1580mm (80 ¹³/₁₆")
 - Length: 4920mm (126")
 - Weight: 1600Kg (3527lb)
- Manual configuration (excl. processor)
- Height: 1100mm (43 ⁹/₃₂")
 - Width: 1580mm (80 ¹³/₁₆")
 - Length: 1340mm (61 ³/₈")
 - Weight: 900Kg (1984lb)

*All measurements taken from the front of the platesetter assuming that the plate path feeds from the front to the rear

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