



## iCPlate2 and PlateScope™

Complete Solutions for Plate Quality Control



Ensuring you have accurate plates is a necessary step toward quality printing. Accurate plates are the key to reducing production waste including ink, paper, and plates. Get control of your plate quality with leading-edge plate reader technology from X-Rite.

**Plate measurement accuracy is critical in a plate reader. X-Rite's plate control solutions offer the highest level of repeatability, accuracy, and imaging range, including extreme highlights and shadows.**

To keep up with the latest technology in plates and screening, we offer cutting-edge plate reading advances, which support the latest screening and plate technologies.

X-Rite plate control devices provide language-independent operation with an easy-to-use, icon-based graphical user interface (GUI), and clear visual readings of plate characteristics on the large LCD display. All of X-Rite's plate reader devices are designed for both right- and left-handed operation.

Each model comes complete with a handheld plate reader, a calibration target, and Capture Tool software to transfer measurement data to any Windows application. In addition, our PlateScope reader includes PlateQuality software to track measurements in a database and is an optional add-on to iCPlate2 solutions.

### **FOGRA Measuring Bar (FMB) Support:**

All devices support measurements in compliance with the FOGRA Measuring Bar (FMB), aligning your plate measurements to the official reference standard from the Fogra Institute, if that is your reference of choice.





iCPlate2 X & XT

## iCPlate2 Solutions

iCPlate2 offers a high level of plate reading accuracy for standard plate reading applications. It offers high camera resolution, automatic calibration, and a very long battery life. It is available in two different configurations - iCPlate2 X and iCPlate2 XT - to best suit your plate measurement needs. iCPlate2 X can be upgraded at any time to iCPlate2 XT by entering an access code.

### iCPlate2 X

- For dot area measurements on common metal and polyester plate types
- Supports AM, FM, and hybrid screening measurements

### iCPlate2 XT

In addition to the functionality found in iCPlate2 X, iCPlate2 XT includes:

- More measurement values (dot size, screen ruling, screen angle) for more detailed screening analysis
- Ability to compare and visualize measurements with a reference curve

#### Accurate

The superior object recognition algorithm built into iCPlate2 eliminates dust and scratches as it reads your plates. The high resolution camera system measures a wide variety of plate types, both positive and negative, including AM, FM, and hybrid screens.

#### Easy To Use

Mode switching is easy, which means you can use a single iCPlate2 device for multiple functions to verify and track plate accuracy and consistency. The small unit fits easily in your hand and is extremely easy to target and position correctly on the plate — no training required.

#### Efficient

LED illumination extends the battery life of the iCPlate2, giving you the confidence that the unit will be ready to go when you need it.

## PlateScope

PlateScope offers advanced, unsurpassed accuracy and repeatability for the latest plate and screening technologies. It supports all current screening technologies, including AM, FM, XM and hybrid screen types.

#### Accurate

PlateScope is equipped with two cameras; a color camera for positioning, and a high resolution monochrome camera for critical measurements. With its high resolution measurement capability, the edges of dots are accurately detected, even for thin screenings.

#### Easy To Use

The colorful, icon-based interface makes PlateScope the easiest to operate plate control device on the market today.

#### Efficient

PlateScope's patent-pending auto-contrast video targeting system allows you to easily identify the targeted measurement areas you want — even from a full arm's length away or in darker environments.

PlateScope



## The Value of Plate Control: Small Investment, Big Savings

The return on your investment in a high quality plate reader can be realized in the increased plate quality control of just one or two jobs saved on-press.

Consider, for example, a typical 4/4 32-page, self-cover, saddle-wire book printed on a 40" press (8 page signature). If the job is incorrect, you have the costs of 16 plates being re-run, the wasted time of running the plates, the make-ready press time, as well as the wasted stock during make-ready.

If you discover the plates are wrong once they are on-press and it becomes necessary to correct them, not only are you throwing away the original production costs incurred including ink, plates, and paper, but you have to incur the same costs again to correct the errors. If the press also happens to be waiting for the new plates during this time, you'll also incur additional costs for down time.

The larger the job, the larger the loss. By implementing proper plate quality control, you'll minimize - if not eliminate - these costly mistakes.

## PlateQuality 2.0 & Capture Tool

Designed specifically for X-Rite plate control devices, PlateQuality software stores, visualizes, and documents both individual measurements and plate characteristic curve measurements. This gives operators a saveable, visual dot reference to refer back to when needed. Both measurement values and plate images are stored in a database.

Capture Tool software allows users to easily import measurement values and plate images directly into any Windows application for quality tracking purposes.

PlateQuality software is included in PlateScope models and is optional for iCPlate2 models. Capture Tool software is provided with all plate control solutions.



## vipFLEX: Take Control of Your Flexo Plate Production Quality

When it comes to flexo print production, X-Rite's vipFLEX is the one solution capable of handling all of your plate production quality assurance needs. Visit [xrite.com](http://xrite.com) to download a vipFLEX brochure.



## FEATURE COMPARISON

	iCPlate2 X	iCPlate2 XT	PlateScope
<b>PRIMARY FUNCTION</b>	Simple plate measurement checks	Regular job control and plate measurement checks	Routine process control, tight job control and plate measurement checks
<b>ACCURACY</b>	Generic mode to accurately read all supported plate types	Generic mode to accurately read all supported plate types	Generic mode to accurately read all supported plate types. Includes specific plate tables to adapt to the unique behaviors of the most common plate types for highest measurement accuracy
<b>REPEATABILITY</b>	High repeatability	High repeatability	Highest repeatability performance
<b>STANDARD PLATE SUPPORT</b>	Supports most popular plate types (Ask your X-Rite representative about the support of your plate)	Supports most popular plate types (Ask your X-Rite representative about the support of your your plate)	Supports most popular plate types (Ask your X-Rite representative about the support of your your plate)
<b>PROCESSLESS PLATE SUPPORT</b>	Supports high-contrast process-less plates such as AGFA Azura, and Fuji Pro-T low latency plate, if washed with special cleaner	Supports high-contrast process-less plates such as AGFA Azura, and Fuji Pro-T low latency plate, if washed with special cleaner	Supports high-contrast process-less plates such as AGFA Azura, and Fuji Pro-T low latency plate (Ask your X-Rite representative about support of your specific plate)
<b>EASE OF USE</b>	Easy to position with a highly visible target	Easy to position with a highly visible target	Easy to position – revolutionary video targeting system allows for positioning from a full's arm's length away or in darker environments
<b>CONNECTIVITY</b>	Serial connection to the COM port of your computer	Serial connection to the COM port of your computer	USB
<b>SOFTWARE</b>	Includes Capture Tool, PlateQuality 2.0 optional	Includes Capture Tool, PlateQuality 2.0 optional	Includes Capture Tool and PlateQuality 2.0

## PLATE READER TECHNICAL DATA

	iCPlate2 X	iCPlate2 XT	PlateScope
<b>FUNCTIONS</b>			
Dot area %	X	X	X
Dot size (dot diameter)		X	X
Screen ruling (Lines/cm or lines/inch)		X	X
Screen angle		X	X
Visual coverage		X (0 – 2.2 D)	
Visual analysis	X	X	X
Plate characteristic		X	X
Measurement storage		100	20 x 7
<b>MEASUREMENT SAMPLES</b>			
Standard offset plates	X	X	X
Processless plates (e.g. Agfa Azura)	X	X	X
Processless, low latency plate			
Fuji Pro-T (washed)	X	X	X
Polyester plates	X	X	
Paper		X	X
Film		X	
Positive and negative plates	X	X	X
AM screening	X	X	X
FM screening	X	X	X
Hybrid screening	X	X	X
<b>USER INTERFACE</b>			
Graphical display	160 x 80 pixels 4 step grey		140 x 160 pixels 24 bit color display
Multilingual	X		X
Icon based	X		X
Left - Right hand aperture	X		X

	iCPlate2 X	iCPlate2 XT	PlateScope
<b>POWER SUPPLY</b>			
Power source	2 Batteries 1.5 V (Size AA)		Rechargeable Ni-MH batteries
Battery life (measurements)	30,000 (typ.)		> 2'000 /typ.)
<b>DATA INTERFACE</b>			
Interface	Serial (115'200 baud)		USB2.0
<b>MEASUREMENT TECHNOLOGY</b>			
Ring illumination	X		X
Illumination colors	R	R, G, B	R, G, B, RGB IR, UV
Screen ruling range (AM)	26 – 147 l/cm 65 – 380 lpi		30 – 150 l/cm 75 – 380 lpi
Dot size range (FM)	10 µm – 50 µm		10 µm – 70 µm
Repeatability	± 0.5% (typ.)		± 0.5% (typ.)
Measurement time	3 sec (typ.)		3 sec. (typ.)
<b>MECHANICAL DATA</b>			
Dimensions (H x W x L)	4.8 x 7.3 x 14.5 cm 1.9 x 2.9 x 5.7 in		9 x 9 x 20 cm 3.8 x 3.8 x 7.9 in
Weight	400 g / 14 oz		850 g / 30 oz

### X-RITE WORLD HEADQUARTERS

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