

iC Plate™ II

Platereader

The Complete Solution
for Plate Quality Control

85.6

82.5

80.4

75.8

72.4

70.1

68.6



gretagmacbeth
YOUR COLOR. PRECISELY.

iCPlate™ II

Platereader

Fast, Easy, Accurate, and Energy Efficient

Accurate plates are a prerequisite for accurate printing. Accurate plate reading is essential to save time and reduce ink, paper and plate waste from press runs with bad plates. iCPlate II plate reading devices from GretagMacbeth provide a high level of plate reading accuracy with a high camera resolution, short measurement time, automatic calibration, and batteries that do not need constant recharging. It's the only device needed to measure the whole screen ruling range and whole dot size range – and it's available in two models so you can start with only the functionality you need and add more when your needs grow. iCPlate II solutions come complete with platereader, calibration target, and TabWizard software. Add even more value when you include the optional PlateQuality software for a total quality control plate reading solution.

Fast Measurement Cycle

The power of iCPlate II, which provides quick measurement time and clear visualization of the results, is only the beginning. This handheld device is automatically calibrated, eliminating calibration errors, saving you time, and thereby reducing your measurement cycle. And reduced measurement cycle means increased quality output.

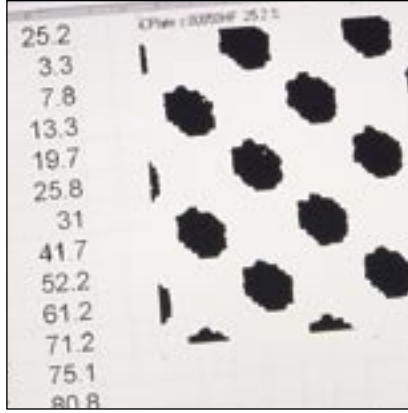
Easy to Use

The icon based Graphical User Interface (GUI) provides language independent operation with easy to see readings of your plate characteristics—all via a large LCD display. Switching from one mode to another is simple, allowing you to use one product for multiple functions as you verify and track plate accuracy and consistency. The small frame makes the unit easy to handle and very easy to position correctly on the plate. It's cable free and requires little training.





With iCPlate II Advanced device you can measure the most used AM and FM screens.



Even plate images can be transferred to the PC with the included TabWizard software.



The icon based user interface on the gray scale LCD makes operation easy to use and language independent.

Higher Measurement Accuracy

The superior object recognition algorithm built into iCPlate II eliminates dust and scratches as it reads your plate. The video camera system provides perfect illumination as it measures positive and negative plates, and AM and FM (stochastic) screening, on a wide range of plate types. The high image resolution provides all of the visibility needed for analyzing: dot area, dot size, screen ruling, screen angle, visualization of the dots and the plate characteristic curve. (Different functionality levels are provided in each unit. Please refer to technical data.)

Energy Efficient

Due to the LED technology of the iCPlate II the life time of the battery is extended. This means longer battery life, and a plate reader that is ready to work when you are.

iCPlate II Family of Solutions

The **iCPlate II Basic** model supports the full range of the most frequently used aluminum and polyester plate types, using AM screening for the most widely used screen rulings. Both negative and positive plates are supported. Additional features are optional and can easily be added to the basic model to upgrade it to the iCPlate II Advanced performance level through a purchased access code.

The **iCPlate II Advanced** provides all of the features of the Basic model plus the ability to measure FM (stochastic) screening. It provides a wider range of functions including the ability to measure dot percentages and size, screen rulings and angles for both AM and FM screening, visual analysis and coverage, plate characteristic, and references. It also measures paper and film.

iCPlate Target II and **TabWizard II** software are included with both the Basic and Advanced models. iCPlate Target II consists of a reference target and software used to test for plate reading accuracy and calibrate the device. It supports the ISO 9000 process by storing and printing the test and calibration data. TabWizard II software allows users to easily import measurement values and plate images directly into an active Windows application such as Microsoft Excel, for quality tracking purposes.

PlateQuality software, designed specifically for the iCPlate II devices, stores, visualizes, and documents both individual measurements and plate characteristic curve measurements giving operators a saved, visual dot reference to refer back to when needed. Both measurement values and plate images are stored in a database. Both iCPlate II models can also be purchased bundled with the new PlateQuality software for an even more cost-effective package.

iCPlate II packages

iCPlate II Basic

iCPlate II Basic PQS

(includes PlateQuality software)

iCPlate II Advanced

iCPlate II Advanced PQS

(includes PlateQuality software)

Technical data		iCPlate II Advanced	iCPlate II Basic
Functions	Dot %	•	•
	Dot size (dot diameter)	•	Optional
	Screen ruling (Lines/cm or Lines/inch)	•	Optional
	Screen angle	•	Optional
	Visual analysis	•	•
	Plate characteristic	•	Optional
	References	100	Optional
	Visual coverage	•	Optional
		(0 - 2.2 D)	
Measurement samples	Standard printing plates	•	•
	Polyester Plates	•	•
	Paper	•	Optional
	Film	•	Optional
	Positive and negative plates	•	•
	AM screening	•	•
FM screening	•	Optional	
User interface	Graphical display	160 x 80 pixels	160 x 80 pixels
	Multilingual	•	•
	Icon based	•	•
Power Supply	Power Source	2 Batteries 1.5 V (Size AA)	2 Batteries 1.5 V (Size AA)
	Battery life	30,000 measurements	30,000 measurements
Data Interface	Interface	Serial	Serial
	Baud rate	115,200	115,200
Measurement Technology	Ring illumination	•	•
	3 different Illuminant colors	RGB	R (optional GB)
	Target size	Approx. 1.3 x 1 mm	Approx. 1.3 x 1 mm
	Sensor	648 x 488 (pixels)	648 x 488 (pixels)
	Screen Ruling Range (AM)	65 - 380 lpi	65 - 380 lpi
		26 - 147 l/cm	26 - 147 l/cm
	Dot size range (FM)	10 - 50 µm	Optional 10 - 50 µm
	Repeatability	+/- 0.5%	+/- 0.5%
Measurement time	3.4 sec.	3.4 sec.	
Mechanical data	Dimensions (HxWxL)	4.3 x 7.3 x 14.5 cm (1.7 x 2.9 x 5.7 in)	4.3 x 7.3 x 14.5 cm (1.7 x 2.9 x 5.7 in)
	Weight	400 g	400 g

Specification subject to change without notice

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Switzerland: t: +41 1 842 24 00, f: +41 1 842 22 22
United States: t: +1 800 622 2384, 845 565 7660, f: +1 845 561 0267
United Kingdom: t: +44 1928 280050, f: +44 1928 280080
Germany: t: +49 61 0279 570, f: +49 61 0279 5757
Italy: t: +39 0574 527755, f: +39 0574 527671
France: t: +33 161 062 180, f: +33 134 620 947
Russia: t: +7 095 502 92 65, f: +7 095 502 92 67
China (Hong Kong): t: +852 2368 7738, f: +852 2368 6717
China (Shanghai): t: +86 21 58684348, f: +86 21 58684358

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