

# WideTEK<sup>®</sup> 12

SPECTRUM

*UV-VIS-IR Scanning*

*Multi Spectrum A3+ scanner includes  
3D surface and backlight scanning*



***World's fastest UV, VIS, IR, 3D and  
backlight flatbed scanner for formats  
up to DIN A3+ (12" x 18")***



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- ALL IN ONE MULTI WAVELENGTH, MULTI LIGHT SCENARIO SCANNER
- SCANS WITH 1200 x 1200 DPI RESOLUTION
- SCANS WITH UV-LIGHT AT 365NM TO CAPTURE FLUORESCENT EMISSION
- SCANS WITH IR-LIGHT AT 850NM TO CAPTURE INFRARED CONTRAST
- SCANS WITH VISIBLE LIGHT FOR HIGHEST COLOR ACCURACY
- SCANS WITH 3D LIGHT TO CAPTURE SURFACE STRUCTURE OF OBJECTS
- SCANS WITH BACKLIGHT TO CAPTURE VIS TRANSMISSION
- SCANS 12.3 x 18.5 INCHES, 18% MORE THAN DIN/ISO A3
- FULL AREA VIS, IR SCAN IN LESS THAN 3 SECONDS, UV IN 12 SECONDS
- DUAL LED ILLUMINATION, WITH NEW DIFFUSORS FOR OPTIMAL RESULTS
- ISO 1926-1, FADGI COMPLIANT
- INTEGRATED 64BIT LINUX, INTEL I3, GEN 8, 240GB SSD, 8 GB RAM
- GIGABIT TCP/IP NETWORK INTERFACE
- LARGE 7" WXGA TOUCH SCREEN FOR SIMPLIFIED OPERATION
- INTEGRATED SCANNING SOFTWARE SCANWIZARD, LOCAL OR EXTERNAL
- VIRTUAL RESCAN, MODIFY IMAGES WITHOUT RESCANNING
- EASY INSTALLATION & MAINTENANCE VIA SCAN2NET® TECHNOLOGY



*WideTEK®12 SPECTRUM for authenticity verification, banknotes, passports, ID cards, certificates and other special objects containing security features. Captures fluorescence from UV active ink and other objects at 365nm UV light. Scans the IR contrast of documents at 850nm IR light.*

*Scanning with visible light also allows digitization in 3D to capture textures of surfaces like Braille, fabrics, wood, artwork and many other objects.*

*The built-in backlight in the lid detects watermarks and other semitransparent features of documents.*

*Lab instrument quality at an affordable price, Made in Germany*

## The first scanner to combine visible light, UV and IR light, 3D light and backlight in one single flatbed scanner device

The WideTEK 12 SPECTRUM scanner captures images faster and more accurately than many much higher priced lab instruments. It scans fluorescent objects under ultraviolet (UV) light at 365nm as well as the infrared (IR) contrast of objects under IR light at 850nm.

Typical applications include authenticity verification of banknotes, passports, ID cards, birth and marriage certificates, and other special objects.

Another unique feature is the capability to capture 3D surfaces for industrial quality control and surface inspection applications. From Braille print on medication boxes to SMD parts on electronic boards, the superior image quality of a WideTEK 12 SPECTRUM captures every detail.

In visible light, it can be calibrated to conform to FADGI \*\*\*\* and ISO 19264-1 level-A guidelines. An application example is the inspection of print quality of medication packaging including verification of the braille embossment.

Under all lights from UV, visible to IR it scans up to 1200dpi (3D mode 600dpi) at astonishing speeds. A full color or IR scan of the whole area at 300dpi only takes 3 seconds, while the highest resolution scan at 1200dpi is ready after 12 seconds.

## The most versatile multi spectrum, multi light direction, A3+ 12" x 18" flatbed scanner in the industry

- Scans with UV (365nm) excited fluorescence of ink and other objects to prove authenticity.
- Scans the IR (850nm) reflectivity of surfaces to prove authenticity.
- Scans in visible light (VIS) with highest geometric and color accuracy for all types of quality control applications.
- Scans 3D in visible light (VIS) to capture surface properties of fabrics, wood, tiles, artwork etc. with highest precision.
- Scans semi-transparent objects with the backlight unit to capture watermarks, transparencies, and many other objects.
- Scanner is significantly faster and captures larger scan areas than many expensive lab instruments for a fraction of their cost.
- ScanWizard runs locally or under Windows, Linux, Mac.
- Connectors to attach external full HD touchscreen for ScanWizard operation and previews.
- Remote maintenance, troubleshooting and firmware updates.

### What's in the box

- WT12-SPECTRUM
- Foot pedal
- 12-month Full Coverage Warranty.

### Options

- Full Coverage Warranty – Up to 5 years, free spare parts & more



Backlight shows watermarks



UV-light excites fluorescent ink and fiber



IR-light proves banknote's IR response



3D scans braille embossments

### Markets and Applications

WideTEK®12-SPECTRUM, a versatile and valuable lab instrument for numerous markets.

#### WideTEK®12 SPECTRUM Markets

- Government Agencies.
- Border Control, Customs, Immigration, Police.
- Banks, Currency Traders.
- Forensic Labs, Research Labs.
- Industrial Quality Control.
- 3D product presentations in catalogs and in the web.

WideTEK®12 SPECTRUM fits all applications which require multi wavelength and multi direction 3D light scenarios, highest color quality and geometric accuracy.

#### WideTEK®12 SPECTRUM Applications

- Authenticity verification of banknotes, passports, ID cards, birth and marriage certificates, and other special documents.
- High speed, high accuracy scanning of artwork, counterfeit detection.
- Surface inspection, print output control, braille control.
- Capture 3D textures of fabrics, tiles, stone, flooring, etc. for catalogs.
- Laboratory testing of various objects.

The Scan2Net® platform is the technological foundation of all WideTEK® and Bookeye® scanners from Image Access. It replaces the proprietary scanner drivers and software that traditional scanners require with the fastest common, nonproprietary inter-device connection available: TCP/IP over Ethernet. With network interface speeds much higher than USB 3.0 or camera link, Scan2Net® devices are able to reach unrivaled performance at extremely low connectivity cost.

Scan2Net® scanners feature a 64bit Linux based real time operating system, dedicated to scanner specific imaging and mechanical control tasks, maximizing scanning speeds and performance.

## Scan2Net® Advantages

- 64bit Linux based computer, fast and virus protected
- Easy integration into existing network structures
- Only a single IP address is required to run the scanner
- Integration and remote access via the Intranet or even the Internet
- Scans directly to SMB, FTP, hot folders, USB, Email or the Cloud without an external PC
- Simple, intuitive operation, browser based
- Clear menu structure, operation via touchscreen
- Multilanguage support, customizable user interface

## TECHNICAL DATA

Maximum Document Size	313 x 470 mm (12.3 x 18.5 inch), 18% more than DIN/ISO A3
Scanner Resolution / Optical Resolution	1200 x 1200 dpi / 1200 x 600 dpi
Scan Speed Color	Maximum format VIS & IR @ 300 dpi < 3 s, @ 600 dpi < 6 s, @ 1200 dpi < 12 s; UV @ 300 dpi 12 s
Scan Speed Color 3D	Maximum format VIS @ 300 dpi < 6 s
Color Depth	48 bit color, 16 bit grayscale
Scan Output	24 bit color, 8 bit color indexed, 8 bit grayscale, bitonal, enhanced halftone
File Formats	Multipage PDF (PDF/A) and TIFF, JPEG, JPEG 2000, PNM, PNG, BMP, TIFF (Raw, G3, G4, LZW, JPEG), AutoCAD DWF, JBIG, DjVu, DICOM, PCX, Postscript, EPS, Raw data and more
Scan Modes	Plain with diffused illumination, 3D with visible surface texture, UV, IR, backlight
ICC Profiles	Embedded ICC profiles for sRGB, Adobe RGB, native
Quality	Calibrates to conform with ISO 19264-1 Level A, FADGI ****, Metamorfoze guidelines
Camera	Tri-Color CCD camera, 22,500 pixels, encapsulated and dust-proof
Light Source	Two LED lamps with VIS (white), one lamp with UV (365nm), one lamp with IR (850nm), white backlight
Lamp Life Time	White 50,000 h (typ.), Backlight 50.000 h (typ), UV 20.000 h (typ.), IR 20.000 h (typ.)
Computer	64 bit Linux, Intel® Core™ i3 generation 8 processor, 240GB SSD, 8GB RAM for extra large jobs
Touchscreen	7 inch color WXGA (1280*800) touchscreen
USB Port	1 USB Port 3.0
Interface	1 GBit Fast Ethernet with TCP/IP based Scan2Net® Interface
Dimensions	H x W x D: 255 x 440 x 795 mm (10 x 17.4 x 31.3 inch)
Weight	30 kg (66lbs.)
Electrical Connection	100 – 240 V AC, 47 – 63 Hz (external power supply, complies with ECO standard CEC level VI)
Power Consumption	< 0.5 W (Sleep) / 2.5 W (Standby) / 28 W (Ready to scan) / 55 W (Scanning) / 150 W (Backlight)
Operating Temperature	5 to 40 °C (40 to 105 °F)
Relative Humidity	20 to 80 % (non-condensing)
Noise	< 42 dB(A) (Scanning) / <32 dB(A) (Standby)
Standards	IEC/EN/AUS/NZL 62368-1, CB; UL/CSA 62368-1, FCC part 15, EN 55032, EN 55024, EN 61000-3-2, EN 61000-3-3, CCC, BIS, RoHS, WEEE



WEEE



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