

# CAWO Imaging Plates

## DIGIT AL      DIGIT BL



sensitivity and sharpness at low dose

 **Solutions**

## TECHNICAL SPECIFICATIONS

### Requirements

ADC ID Software version 1.1.09 or higher (Unix®)

ADC ID Software version 2.0 or higher (Windows®)

### Standard Sizes

18 x 24 cm, 18 x 43 cm, 20 x 40 cm, 24 x 30 cm, 35 x 35 cm (14 x 14"), 35 x 43 cm (14 x 17"), 15 x 30 cm, 8 x 10", 10 x 12"

Other sizes on request.

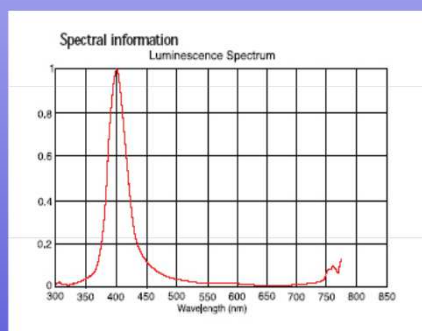
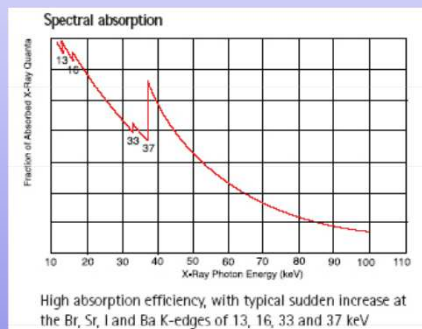
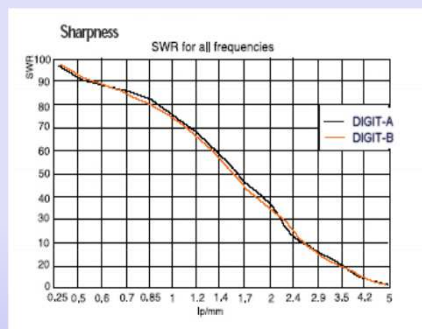
### Phosphor composition

BaSrFBrl:Eu

Typical luminescence: 400 nm

### Image retention

Two hours after exposure 70 % of the stored energy is still present with no visible loss of information upon readout. Image retention still exceeds 45 % after 24 hours. Readout is recommended within 1 hour after exposure.



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**The CAWO DIGIT imaging plate is CAWO's latest high-technology version of a key link in the digital imaging chain, ensuring improved image quality for dedicated applications.**

### Superior image quality

The CAWO DIGIT's storage phosphors feature high absorption efficiency, excellent homogeneity and short response time. The latter means that the previous pixel is fully faded before the next one is stimulated. As a result, a higher level of sharpness at all spatial frequencies is attained.

CAWO's EBC top-coating technology provides a smoother plate surface, giving improved signal-to-noise ratio. The anti-halation layer is an CAWO-patented blue layer that forms a perfect barrier against laser light, whilst letting through the stimulated light.

The CAWO DIGIT's increased sensitivity and sharpness at a low dose level makes this imaging plate especially suitable for dedicated applications.

### Enhanced lifetime

CAWO DIGIT imaging plates are protected by an EBC (electron-beam-cured) top coat. EBC top-coating is a CAWO-proprietary technology for hardening a pre-polymer lacquer coat into a high-density polymer shield that protects the phosphor layer. This results in plates that feature superb resistance to mechanical wear and extensive immunity to chemical cleaning solutions. A new adhesion layer is an additional improvement for the imaging plate's stability, guaranteeing its superior durability.

### No more retakes

The storage phosphors on the CR plate have an extremely wide dynamic range. This results in high tolerance for varying exposure conditions and a greater degree of flexibility in selecting the patient dose level.

Furthermore, in many cases the wide exposure latitude of the CAWO DIGIT imaging plates allows the visualization of all diagnostic information with a single exposure - e.g. bone and soft tissue. Both of these features have the effect of drastically reducing the retake rate. In this way, the use of CAWO DIGIT imaging plates leads to a substantial reduction of the total population dose level.

### Tailor-made solutions

Flexibility and stiffness needed of the plates depends on the application. CAWO provides a wide range of different layouts and mechanical solutions.

### Cleaning and maintenance

Regularly cleaning with **CAWO Imaging Plate Cleaner** is recommended.

