

# MXT SERIES

Professional manufacturer, best quality with competitive price ●  
Recommended by the world UT NDT inspection association for training and examination ●  
Core technology with independent intellectual property rights, certificate of CE, GOST and etc.. ●

## PORTABLE BELT FLAW DETECTOR



### Overview

Mitech MXT series portable belt flaw detector, based on short wave radiography principle, use flat-type image intensifier, built-in high-voltage generator and SD memory card to achieve a convenient belt non-destructive testing and data storage records. Its performance is stable, high sensitivity, clear imaging and easy operation, with real-time imaging, camera storage and other functions. Effective for coal mining enterprises mining equipment (belt) testing, it is a professional non-destructive testing equipment to save production costs, eliminate the necessary hidden dangers.

## Technical Parameters

Technical parameters

	MXTSeries		
	MXT-1200	MXT-1600	MXT-2000
Brightness	≥25cd/m <sup>2</sup>		
Spatial resolution	≥50lp/cm		
Grey level	≥7level		
Maximum thickness	200mm		
Maximum width(Can be customized)	600mm	800mm	1000mm
Effective vision	Φ75mm		
Short-wave ray tube voltage	75kV		
Short-wave ray tube current	0.4mA		
Working time	6h		
Focus nominal value	0.1mm		
Power supply	DC14.4V or AC220V 50Hz		
Charging power supply	AC220V 50Hz		
Power	40W(DC) or 60W(AC)		
Total weight	10kg		

## Features

- Can test wire rope in the belt twitch, broken rope Rust rope .Widely used in coal mining companies such as belt inspection, quality inspection department quality inspection, institutions of higher learning, scientific research test, etc;
- Don't need a dark room and protective, it can realize direct observation real time, and improve testing efficiency conveniently and quickly;
- Using flat image intensifier, with high sensitivity, it responds quickly, can display real-time imaging;
- With self-protection function, it can auto-power off after working 60s to avoid high temperature damage the instrument;
- With 2 rechargeable batteries, it can get rid of the 220V power supply and meet the long working time demand
- With integration design, small volume, light weight, solid in construction, it can be carried by hand, low radiation dose, safe and reliable;
- Built-in SD card , it can take real-time photos stored images, for subsequent processing analysis;
- A software system connected with PC can realize real-time video function.
- Meet domestic and foreign standards.

## Working Principle

The portable belt flaw detector is a new generation of short-wave radiation detection equipment in Mitech. Which is generated by the built-in high-voltage emission device short-wave radiation (spectrally similar to the natural X-ray), through the collimator to limit the emission beam, penetrate the measured belt into the short-wave radiation sensitive flat-type image intensifier. The use of different density substances on the short-wave radiation absorption rate is different from the steel cord and the belt inside and outside the defects of abnormal imaging on the image intensifier screen, and then converted into a visible view of the belt to achieve the nondestructive testing of the belt.

## Scope of applications

Widely applicable to all kinds of wire rope belt whose thickness less than 200mm.

## Applications

- Coal mining enterprises mining equipment (belt) detection;
- Experimental teaching experiment in colleges and universities;
- Scientific research institutions of material analysis testing;
- Wire rope belt manufacturing enterprises quality inspection links.

## Working Conditions

- Operating temperature : 10°C ~ 45°C;
- Relative humidity :  $\leq 75\%$ ;
- Atmospheric pressure range : 700 hPa ~ 1060hPa;
- No corrosive media around, no strong magnetic field interference.

## Configurations

	Item	Name	Qty.	Remarks
Standard Config	1	Main unit	1	
	2	Anti-ray board	1	
	3	Power charger	1	
	4	Cable	1	
	5	Batteries	2	
	6	Attached files	1	
	7	Protection suit	1	



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