



USTER® *EVS Q-BAR*

The fabric quality monitoring system

Technical Data

October 2018

USTER® EVS Q-BAR

The fabric quality monitoring system

USTER® EVS Q-BAR detects faults during manufacturing, thus preventing long-running defects. Working close to the start of the process, reduces material losses and the need for manual inspection after production.

Elements of the USTER® EVS Q-BAR installation



Basic installation

- 1 Test unit with spectroscopes
- 2 Illumination unit (no illustration)
- 3 Control unit including touch screen (no illustration)
- 4 Control box (no illustration)
- 5 Encoder (length meter) (no illustration)

USTER® EVS Q-BAR

The fabric quality monitoring system

Basic installation

Overall installation	Functions	<ul style="list-style-type: none">– USTER® EVS Q-BAR responds quickly and avoids long-running or repeating defects– Alarm and stop signal enable the operator to react to correct the problem on the loom immediately– USTER® EVS Q-BAR visualizes defects onscreen in the user interface– Integrated image acquisition and processing– Real-time image processing– All defects are detected, categorized, saved and displayed on the operator interface– High-speed detection capabilities– Clear results regardless of vibration, stops, take-up mechanics, operator presence
	Included in the delivery	<ul style="list-style-type: none">– Test unit with spectroscopes– Illumination unit– Control unit including touch screen– Control box– Encoder (length meter)– Application software
Subsystem of the USTER® EVS Q-BAR:		
Test unit (1)	General instrument usage	<ul style="list-style-type: none">– Recommended for all kinds of looms and warp knitting machines except water jet looms– Special patterns and designs on request
	Spectroscope	<ul style="list-style-type: none">– Spectroscope is installed in a sealed, slim aluminum housing
	Illumination unit (2)	<ul style="list-style-type: none">– The inspected fabric appears differently under different illumination positions and intensity– Reflected or transmitted light sources
Control unit (3)	Encoder (5)	<ul style="list-style-type: none">– The encoder (length meter) synchronizes the inspection system with the machine's rolling length, speed and direction
	Computer software	<ul style="list-style-type: none">– USTER® EVS Q-BAR intuitive touch application software– Windows operating system– System pre-configured and locked down– Simple full system updating process
	Computer hardware	<ul style="list-style-type: none">– Computer with Intel® processor– 1 internal 128 GB SSD hard drive

USTER® EVS Q-BAR

The fabric quality monitoring system

Application Software for USTER® EVS Q-BAR

Type of report	Defect map	<ul style="list-style-type: none">– Defect map– Defect images– Defect lists– Defects distribution– Statistical graph– Statistics per section– Defects grading
	Album mode	<ul style="list-style-type: none">– The album contains the history of past roll inspections– Specific roll inspections can be recalled, which allows the user to perform the complete set of actions in offline mode
	Roll list	<ul style="list-style-type: none">– The roll selection window allows to select a roll to work on, export and delete rolls
Coding and classification	List of codes	<ul style="list-style-type: none">– The roll selection window allows to select a roll to work on, export and delete rolls– Alphanumeric codes can be attributed to the defects that are of importance
	Classification	<ul style="list-style-type: none">– The classification module enables the user to get automatic classification based on the pre-defined classes– The classification module is used to quickly attain most of the cases of a given defect type or to get an initial base classification
Coding and classification	Dialog and report languages	English, German, French, Italian, Spanish, Portuguese, Turkish, Hebrew, Polish, Dutch, Czech, Chinese or Japanese can be selected (other languages on request)
	Possible units	<ul style="list-style-type: none">– Length: foot, yard or meter– Width: inch or millimeter– Points per 100: foot, yard or meter– Majors per 100: inch or millimeter– Speed: ft/min, yd/min or m/min
Selftest	Function check	<ul style="list-style-type: none">– Remote support capabilities built-in– Diagnostic tools with extensive event logging

USTER® EVS Q-BAR

The fabric quality monitoring system

Installation conditions

General ambient conditions

Mill climate

- The temperature should be maintained below 35° C and the humidity should be kept below 80 %
- The general electronic devices of the system may behave abnormally and usually have higher failure rates above the specified limits

Installation

Electric connections

Single phase with protective conductor

Mains voltage range

100 – 240 VAC

Mains frequency

50/60 Hz

Power consumption

Maximum 750 VA

Compressed air connection

- Not required

Gross weight of the basic function

- Test unit (depending on width): 80 kg
- Control unit: 65 kg
- Complete system: 145 kg

Uster Technologies has made all possible efforts to ensure that all information is accurate at the time of publication. Hereby it is declared that alterations to the product may be possible at any time. In these cases the information contained in this technical datasheet is subject to change without notice.

October 2018



Uster Technologies AG

Sonnenbergstrasse 10

8610 Uster

Switzerland

T. +41 43 366 36 36

F. +41 43 366 36 37

sales@uster.com

www.uster.com