

二次元光学影像测量仪，投影仪，测绘仪，非接触是几何精密测量仪

产品名称	二次元光学影像测量仪，投影仪，测绘仪，非接触是几何精密测量仪
公司名称	上海标克仪器科技有限公司
价格	25000.00/个
规格参数	加工定制:否 品牌:标克 型号:VMT2010S
公司地址	浙江 杭州市萧山区 经济技术开发区宁安路8号
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产品详情

vmt2010s增强型影像测量仪

技术资料

产品技术规格 technical specifications

vmt系列s增强型影像测量仪，采用美国teo700tvl高清相机，以及pomeas大景深精确卡位变倍物镜，将工件摄入计算机处理并放大29到187倍，显示于屏幕上，可以直接拍照存档或做表面观察、量测、绘图，其测量资料可做成excel报表、制图文件，也可以转成autocad应用，autocad图形也可以调入计算机软件中与工件对比，制成数据，可以在计算机上储存、打印，更可通过网络进行传送。特别适用于种类多、批量少的产品测量，广泛应用于模具、机械、电子以及其他精密五金等行业。

vmt series s type enhanced manual image measuring instrument, use 700 tvl color ccd of teo america, and fixed zoom lens of pomeas, the workpiece intake of computer processing and magnified 29 to 187 times, displayed on the screen, can be directly photo archive or surface observation, measurement, drawing, the measurement data can be made excel statements, graphics files, can also be convert autocad applications, autocad graphics can also be transferred to the computer software and the workpiece made comparison, data, can be stored, printed on the computer, it can be sent through the network. especially suitable for many kinds of products, little batch measurement, is widely used in mould, machinery, electronics and other precision metal industries

基本参数 basic parameter

影像测量仪 video measuring machine				
型号 model	行程 (mm) range	外部尺寸 (mm) external size	工作台尺寸 (mm) work table size	重量 (kg) weight
vmt2010s	200 × 100 × 160	530 × 630 × 880	355 × 250	160
测量精度 accuracy		xy轴 : (3.0+l*/200) μm z轴 : (10.0+l*/200) μm *l表示测量长度, 以毫米为单位 *l, the measured length in mm.		
工作环境 operating environment		温度temperature : 20 ± 2 温度变化temperature variation : <2 /hr 湿度humidity : 30 ~ 60% 电源power : 220 ± 10v , 50/60hz		

配置清单 configuration list

序号 no.	名称 name	分项名称 description	规格及主要技术参数 technical specifications
1	机械本体 mechanics	主机 machine	影像测量系统 video measuring system
2		机械结构 structure	花岗岩主体结构, 物理性能稳定 precision granite structure, high stability

3		光栅尺	1 μ m分辨率
		scale	1 μ mscales
4		导轨	三轴精密滑轨
		guide	3-axis precision guide
5	光学系统	ccd	美国teo 700tvl彩色ccd
	optical system		700 tvl color ccd of teo america
6		镜头	pomeas大景深变倍镜头
		camera	fixed zoom lens of pomeas
7		放大倍率	综合变倍29 ~ 187
		magnification	magnification 29x~187x
8		表面光	3环led冷光源，256级亮度可调
		surface	led lighting,256 luminance adjustable
9		轮廓光	led冷光源，256级亮度可调
		profile	led lighting,256 luminance adjustable
10	软件系统	tenhon测量软件	vmt版
	software system	tenhon software	vmt edition
11	附件	合格证	校验合格
	accessories	qualified	qualified
12		操作说明书	仪器操作说明书
		operating instructions	professional operating instructions
13		出厂检验报告	检验报告
		the factory inspectionreport	factory inspection report
14		加密锁	加密盘加密
		encryption lock	encryption by disk encryption
15		保修卡	保修卡
		the warranty card	the warranty card by tenhon

仪器特点features

∅ 精密的传动装置设计，实现快速移动。

rapid move with precise gearing system.

∅ 花岗岩结构，框架稳定可靠。

granite structure, high accuracy and stability.

∅ 人性化z轴前置设计，不用高台手臂就能轻松实现聚焦。

humanized z axial pre design, the arm can not easily achieve.

∅ 测量数据可导出excel、autocad等。

support forms style of excel, autocad, etc.

∅ 图文并茂的报表输出功能,轻松输出检测结果。

illustrated report output function.

∅ 三轴精密滑轨，保证机器精度及使用寿命。

three-axis precise linear guide can ensure the precision and the life.

∅ 高清晰度镜头和高分辨率ccd，实现产品高清晰度测量。

high clear camera and resolution ccd.

软件系统 software system

∅ 基本测量功能 basic measuring function

1. 可测几何量：点、交点、点群、直线、圆、圆弧、椭圆、角度、平行线、垂直线等。 measurable geometry: point, point, point group, a straight line, circle, arc, ellipse, angle, parallel lines, vertical lines.

2. 尺寸标注：长度、角度、坐标、半径等。

dimensions: length, angle, radius, coordinate.

3. 组合元素：两点距离、直线中点、点线距离、圆心距、角平分线、点圆切线、两线平分距离、两圆切线、两圆弧点距离。

combination of elements: distance, linear point, point line distance, center distance, angle bisector, point the tangent line bisection distance, two, two, two point arc tangent distance.

4. 形位公差：同心度、真圆度、直线度、垂直度、平行度。

tolerance: concentricity, roundness, straightness, parallelism, perpendicularity.

∅ 输出及数据统计 output and data statistics

可输出excel报表和autocad文件。

word, excel txt and autocad formats of output.

售后服务承诺书commitment of after service

一、安装调试和培训debugging and training

1、交货与安装调试delivery and debugging :

该仪器到达甲方仪器安装地点后，甲方应立即通知我司。我方将在和甲方协商的日期内到达用户所在地进行安装，甲方仪器使用人员需提供必要的协助。

on the goods arrival in the fitting place, the buyers should inform tenhon. we will arrive in the customer ' s location to fit the goods within the agreed date. the buyers should provide necessary assistance.

安装工作通常在一天内完成，包含机台及各零件定位、机台调水平、三轴复原、ccd定位、线路检查及功能电路测试等。

the fitting work should be finished within one day, including positioning the main body and its accessory, leveling the body, recovering three axis, locating the ccd, checking the connections and testing the function circuit.

调试工作通常也在一天内完成，包含校验精度等。

the adjusting work is generally finished within one day, too, including precision correction.

2、培训training :

培训地点：在甲方指定地点。

training place: the buyers ' appointed position.

培训人数：在仪器安装验收之后,由乙方安装工程师对用户1-2人进行操作培训（受训人员应具有基本的测量常识和电脑知识）。

quantity of trainee: after the fitting and acceptance of the goods, the engineer from the sellers train one or two of the buyers (the trainee should have basic knowledge of measuring and computer).

培训内容：包含机台操作使用培训和测量软件培训，直到操作者能掌握基本操作为止。

content of training: including the training of operating the body and mastering the measuring software till the trainee can master the basic skills by themselves.

二、保修期内售后服务after service within guarantee

1、自调试完成之日起一年内为产品的保修期。保修期内，在正常使用条件下，若发生任何因产品本体或组件（含机台、镜头、ccd、软件）损坏引发的故障，本公司免费为客户做修换服务。

the guarantee period is defined as one year after the finish of the fitting, debugging and training. within guarantee,

under proper use, any malfunction of product or accessory (include body, lens, ccd, software) will be repaired or replace by the sellers for free.

2、保修期内测量软件免费升级。

during the guarantee, the software will be upgraded for free.

3、接到客户报修通知，本公司承诺在1个工作日内回复并提出解决方案。如需现场解决，3个工作日内到达现场。

tenhon promises to provide effective solutions after receiving the customer ' s notice of repair. if on site solution is needed, tenhon will arrive there within 3 days.

4、在保修期内，由于如下原因导致产品故障，本公司需酌情收取成本费用。

within the guarantee, tenhon will claim charge of cost if the malfunction or damage is caused by follows:

(1) 人为因素操作不当而造成的故障和损坏。

user ' s improper operation.

(2) 因电脑中病毒、操作系统等损坏造成的软件无法正常使用。

due to computer viruses, operating system and other damage caused by the software does not work properly

(3) 自行改装或私自拆机而造成的故障和损坏。

private refitting or dismantling.

(4) 由于天灾、地震、火灾或其他不可抗力因素而造成的故障和损坏。

force majeure like earthquake, fire etc.

(5) 使用非本公司指定的零配件所引起的故障和损坏。

accessory used is not appointed by tenhon.

三、一年保修期后的售后服务after service after the 1 year ' s guarantee

I 一年后实行按次上门收费服务，或客户可签订收费年服务合约。

after the 1 year ' s guarantee, fees will be charged by time of door to door service. or the customer can sign the agreement of yearly service.

本产品的加工定制是否，品牌是标克，型号是VMT2010S，分辨率是0.001 (mm)，测量行程是200 × 100 × 160 (mm)，放大倍率是90，操作方式是鼠标自动控制，测量精度是XY轴：(3.0+L*/200) μ m，外形尺寸 (长*宽*高) 是530 × 630 × 880 (mm)