

**SUBMITTAL TO THE FLOOD CONTROL AND  
WATER CONSERVATION DISTRICT  
BOARD OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**



**ITEM: 11.4  
(ID # 11134)**

**MEETING DATE:**  
Tuesday, October 29, 2019

**FROM :** FLOOD CONTROL DISTRICT AND General Manager-Chief Engineer :

**SUBJECT:** FLOOD CONTROL DISTRICT: Authorize the Purchasing Agent to issue a Purchase Order to Wehrli & Associates, LLC for the Purchase of an RM-6 Auto Scanner Aerial Film Photogrammetric Scanner Without Seeking Competitive Bids. Districts All. [\$85,500 Total - 100% District Funds]

**RECOMMENDED MOTION:** That the Board of Supervisors:

1. Authorize the Purchasing Agent to issue a Purchase Order to Wehrli & Associates, LLC for the purchase of an RM-6 Auto Scanner Aerial Film Photogrammetric Scanner without seeking competitive bids for \$85,500 for FY 2019-2020.

**ACTION:Policy**

Jason Uhley, GENERAL MGR-CHF FLD CNTRL ENG 10/17/2019

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**MINUTES OF THE BOARD OF SUPERVISORS**

On motion of Supervisor Perez, seconded by Supervisor Spiegel and duly carried, IT WAS ORDERED that the above matter is approved as recommended.

Ayes: Jeffries, Spiegel, Washington and Perez  
Nays: None  
Absent: Hewitt  
Date: October 29, 2019  
xc: Flood

Kecia R. Harper  
Clerk of the Board  
By:   
Deputy

**SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD  
OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

<b>FINANCIAL DATA</b>	<b>Current Fiscal Year:</b>	<b>Next Fiscal Year:</b>	<b>Total Cost:</b>	<b>Ongoing Cost</b>
<b>COST</b>	\$85,500	\$0	\$85,500	\$0
<b>NET COUNTY COST</b>	\$0	\$0	\$0	\$0
<b>SOURCE OF FUNDS:</b> 100% DISTRICT FUNDS 546080-40650-947120			<b>Budget Adjustment:</b>	No
			<b>For Fiscal Year:</b>	19/20

**C.E.O. RECOMMENDATION:** Approve

**BACKGROUND:**

**Summary**

The Riverside County Flood Control and Water Conservation District (District) is seeking approval to procure the RM-6 Auto Scanner aerial film photogrammetric scanner for the Photogrammetry Section of the District's Surveying and Mapping Division.

The majority of the mapping projects the Photogrammetry Section completes utilize film imagery that requires the use of a high accuracy film scanner. In addition to scanning current projects, we routinely scan archived imagery as a service to the public as well as for internal use. The purchase of a scanner will allow us to remain cost effective, achieve the highest levels of accuracy and avoid delaying mapping projects.

The purchase of this technology would enable the District to scan the vault at a fraction of the price an independent business would charge to do the same. It is estimated an independent business would charge \$1,755,000-\$2,340,000 to scan the entirety of the vault. The vault has 390 rolls of film. The rough estimate is that there are 300-400 images per roll. A typical price for scans in the industry is approximately \$15/image. A certain amount of the vault will have been scanned previously (most jobs post 2009-2010), but many will have been scanned at a low resolution and should be rescanned. The estimated cost for District staff to scan the vault in its entirety would be approximately \$195,000-\$741,000 (this includes the cost of the scanner) based off spending 5-20 hours/roll in man hours.

**Impact on Residents and Businesses**

Costs incurred will be funded by ad valorem property tax revenue and entails no new fees, taxes or bonded indebtedness.

**Additional Fiscal Information**

Funds for this purchase are included in the District's Surveying and Mapping Division fund for FY 2019-2020.

**Agreed upon terms of payment between Wehrli & Associates and the District:**

20% payment with purchase order

**SUBMITTAL TO THE FLOOD CONTROL AND WATER CONSERVATION DISTRICT BOARD  
OF SUPERVISORS  
COUNTY OF RIVERSIDE, STATE OF CALIFORNIA**

60% payment upon presentation of shipping papers  
20% payment 30 days after installation

**Contract History and Price Reasonableness**

In accordance with current purchasing guidelines, the District has completed market research and determined that the only distributor of the RM-6 Auto Scanner in the United States is Wehrli & Associates, LLC. The District has obtained approval of a Sole Source Justification #20-052 from the Riverside County Purchasing Agent and H-11 approval #PR2019-09144 from RCIT. The purchase of the auto scanner allows the District to complete the scanning of its own vault with District staff rather contracting out the scanning services and this creates a minimum potential savings of \$1,014,000.

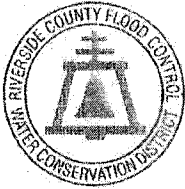
**Attachments**

Approved Sole Source Justification with its listed attachments.

MW:mc  
MT #11134  
P8/227785

  
Tina Grande, Assistant Purchasing Director 10/18/2019

  
Jason Farin, Senior Management Analyst 10/23/2019



**MEMORANDUM**  
RIVERSIDE COUNTY FLOOD CONTROL  
AND WATER CONSERVATION DISTRICT

September 10, 2019

**TO:** Riverside County Purchasing Department  
**VIA:** Marilyn Weisenberg, 951.955.4348 or ext. 54348  
**FROM:** Jason E. Uhley, General Manager-Chief Engineer  
**RE:** Sole Source Procurement – Wehrli & Associates, LLC  
Request for RM-6 Autoscanner Procured

The information provided below is in support of the District requesting approval for a sole source. *(Outside of a duly declared emergency, the time to develop a statement of work or specifications is not in itself justification for sole source.)*

1. **Supplier being requested:** Wehrli & Associates, LLC
2. **Vendor ID:** 230694
3.  Single Source                       Sole Source
4. **Have you previously requested and received approval for a Sole or Single Source request for this vendor for your department?**  
 Yes                       NO

SSJ# \_\_\_\_\_

- 4a. **Was the request approved for a different project?**  
 Yes                       NO
5. **Supply/Service being requested:** To procure the RM-6 AutoScanner aerial film photogrammetric scanner for the Photogrammetry Section of the District's Surveying and Mapping Division.
6. **Unique features of the supply/service being requested from this supplier:** The AutoScanner is manufactured in Vinnitsa, Ukraine by Geosystem, SSPE. Wehrli & Associates, LLC partnered with Geosystem, SSPE in the year 2000 and has been the only dealer/distributor for the products manufactured by Geosystem, SSPE in the United States. (Exclusivity letter is attached.) The RM-6 AutoScanner is the only high accuracy photogrammetric film scanner in production. The RM-6 is compatible with Windows 10 and communicates with the PC via USB ports. The Autoscanner features real time tonal correction for best image quality. Each image is scanned twice: once with RGB light and once with IR light. This allows the software to detect objects foreign to the original image, such as dust, and remove those objects from the scan.

**TO:** Riverside County Purchasing Department  
**RE:** Sole Source Procurement – Wehrli & Associates, LLC  
 Request for RM-6 Autoscanner Procured

7. **Reasons why my department requires these unique features from the vendor and what benefit will accrue to the county:** The majority of the mapping projects the Photogrammetry Section completes utilize film imagery that require the use of a high accuracy film scanner. In addition to scanning current projects, we routinely scan archived imagery as a service to the public as well as for internal use. The purchase of a scanner will allow us to remain cost effective, achieve the highest levels of accuracy, and avoid delaying mapping projects.

The purchase of this technology would enable the District to scan its vault at a fraction of the price an independent business would charge to do the same. It is estimated an independent business would charge \$1,755,000-\$2,340,000 to scan the entirety of the vault. The vault has 390 rolls of film. The rough estimate is that there are 300-400 images per roll. A typical price for scans in the industry is approximately \$15/image. A certain amount of the vault will have been scanned previously (most jobs post 2009-2010), but many will have been scanned at a low resolution and should be rescanned. The estimated cost for our own staff to scan the vault in its entirety would be approximately \$195,000-\$741,000 (this includes the cost of the scanner) based off spending 5-20 hours/roll in man hours.

8. **Period of Performance:** From: 07/01/2019 to 06/30/2020  
 (The purchase will be made in the current fiscal year and the product should be received in the current fiscal year.)

Is this an annually renewable contract?       Yes       No  
 Is this a fixed-term agreement?               Yes       No

9. **Identify all costs for this requested purchase. In addition, please include any single or sole source amounts previously approved and related to this project and vendor in the section designated below for current and future fiscal years. You do not need to include previous fiscal year amounts. If approval is for multiple years, ongoing costs must be identified below. If annual increases apply to ongoing costs such as CPI or other contract increases, provide the estimated annual cost for each consecutive year. If the annual increase may exceed the Purchasing Agent's authority, Board approval must be obtained.**

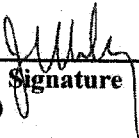

Description:	FY19/20	FY	FY	Total
One-time costs:				
RM-6 AutoScanner as quoted with a one-year express warranty.	\$85,500			\$85,500
Ongoing Costs:				
Previous SSJ Approved Amounts:				
Total costs:	\$85,500			\$85,500

- 9a. **Terms proposed by Wehrli & Associates and agreed to by the District are as follows:**  
 20% payment with purchase order  
 60% payment upon presentation of shipping papers  
 20% payment 30 days after installation

**TO:** Riverside County Purchasing Department  
**RE:** Sole Source Procurement – Wehrli & Associates, LLC  
Request for RM-6 Autoscanner Procured

10. **Price Reasonableness:** The cost is significant but the RM-6 is the only high accuracy photogrammetric film scanner in production, so it is not possible to complete comparison pricing to determine the price reasonableness. Purchasing the scanner will allow for significant cost savings since it will allow for the scanning to be done in-house rather than paying an outside vendor as noted in Item 7. H11 approval PR2019-09144.

11. **Projected Board of Supervisor Date (if applicable):** October 8, 2019

 <b>Department Head Signature</b> <i>(Or designee)</i>	 <b>Print Name</b>	9/10/19 <b>Date</b>
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The section below is to be completed by the Purchasing Agent or designee.  
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Purchasing Department Comments:

<b>Approve</b>	<b>Approve with Condition(s)</b>	<b>Disapprove</b>
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Condition(s):


\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Not to exceed:

One-time \$ 85,500

Annual Amount \$ \_\_\_\_\_ / per fiscal year through \_\_\_\_\_ (date)  
*(If Annual Amount Varies each FY)*

FY \_\_\_\_\_ : \$ \_\_\_\_\_

 <b>Purchasing Agent</b>	9/13/19 <b>Date</b>	20-052 <b>Approval Number</b> <i>(Reference on Purchasing Documents)</i>
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Attachments:

- Quote
- Warranty
- Scanner Support
- Exclusivity Letter
- Scanner Features
- H-11 Approval



## WEHRLI & ASSOCIATES

5 Overidge Lane, Wilton, CT 06897  
914 426 7017 info@wehrliaassoc.com

September 5, 2019

Mr. Keith Ream  
Riverside County Flood Control  
1995 Market Street  
Riverside, CA 92501  
[kgream@rivco.org](mailto:kgream@rivco.org)

RE: Riverside\_RCFC\_Quote\_2019\_2

Hello Mr. Ream,

We are pleased to offer you the following for your consideration:

New RM-6 AutoScanner	\$ 52,900
Automatic and manual advancement of the roll film, individual frames, transparencies only. Includes support desk, operation software and ScanMaster LITE. Control computer NOT included.	
Shipping	\$ 1,900
Installation and training (no more than 3 persons in English)	\$ 8,750
<b>Options</b>	
Dust & Scratch Module (color film only)	\$ 4,000
ScanMaster FULL (8, 10, 12, 14 bit pixel depth collection)	\$ 6,000
Glass Grid Plate	\$ 750
Archival Scanning Module	\$ 7,500
Spare Parts Kit	\$ 3,700
Linear encoder, servo board, 2x optical switches, Up/down motor assembly, 5 stage bearings, 1x 625, 627, 629 bearings, film roll cable, pressure glass (no frame)	

**DELIVERY** 150 days or better after receipt of order. Once the shipment has arrived at your facilities, we will arrange for installation.

**TERMS** 20% with purchase order  
60% upon presentation of shipping papers  
20% 30 days after installation

**WARRANTY**

360 days commencing on the date of installation for all parts, labor and expenses. Thereafter, service contract or on-call service at \$1,200 per day for labor and \$40 per hour for travel plus all expenses incurred such as air fare, lodging, transportation to/from airport, etc.



## WEHRLI & ASSOCIATES

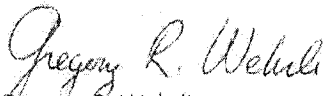
5 Overidge Lane, Wilton, CT 06897  
814 420 7017 info@wehriassoc.com

### PLEASE NOTE

1. All pricing and payments are in U.S. dollars. Our bank information is as follows:  
Account Name: Wehrli & Associates LLC  
Account Number: 721970080  
ABA Number: 021100361  
Swift: CHASUS33  
Bank Name: Chase Bank, 33 Old Ridgefield Road, Wilton, CT 06897
2. This quotation does not include the control computer. The minimum computer configuration is CPU: multi-core Intel I7, RAM: minimum 8 Gb, HDD: >500Gb, 2x USB 2.0 2 ports, O/S: Windows 7 PRO or Windows 10 PRO, Video RAM 2 GB. Please send us the complete specifications, make and model of the computer system you intend to use so we can approve it.
3. This quotation does not include the processing computer for the Archival Module. The minimum computer configuration is CPU: Intel I7 32 threads, RAM, HDD 1TB SSD, O/S Windows 10 Pro, Video RAM 4 GB. Please send us the complete specifications, make and model of the computer system you intend to use so we can approve it.
4. The scanner requires electrical supply is 60±2 Hz, 110V or 50±2 Hz, 230V nominal. A single independent 15 amp (or greater) circuit with isolated ground is required. That means the circuit is not shared with any lights, switches, outlet, devices – 1 outlet on 1 circuit. THIS IS A REQUIREMENT.
5. A voltage line regulator and/or UPS (uninterruptible power supply) of no less than 1000va is highly recommended for the photocopier system.
6. The scanner requires near clean room conditions and an air-conditioned environment
7. During the warranty period we offer free remote support. This means that there must be an internet connection to the scanner computer that will allow access for remote sessions. This is extremely helpful for assisting the operator when there are questions and/or tweaking parameters when necessary. We use TeamViewer however many government agencies use Bomgar due to its dedicated security.

Please do not hesitate to contact us if you have any questions or concerns.

Sincerely yours,

  
Gregory R. Wehrli  
Managing Director  
[greg@wehriassoc.com](mailto:greg@wehriassoc.com)



## **Wehrli & Associates LLC**

### ***International Limited Warranty***

**EXPRESS WARRANTY FOR HARDWARE.** Wehrli & Associates ("Wehrli") warrants to the original end user ("Customer") that this Product will be free from defects in workmanship and materials, under normal use, for one (1) year, unless such warranty period has been extended by Wehrli, and provided any and all operating and maintenance instructions are strictly respected, in particular in case of extreme and/or continuous applications/use of the Product. The warranty period begins on the date of installation. Wehrli's sole obligation under this express warranty shall be, at Wehrli's sole option and expense, to replace or repair the Product or part. Wehrli warrants any repaired or replaced Product or part for a period of ninety (90) days from shipment, or through the end of the original warranty, whichever is longer. All Products or parts that are replaced become the property of Wehrli. This express warranty does neither cover consumables, bulbs and fuses, nor third party products.

**EXPRESS WARRANTY FOR SOFTWARE.** For "System Software" (defined as operating software and/or firmware necessary for switching on and running the Product), all provisions contained in this International Limited Warranty shall apply as for hardware. With respect to "Application Software" (defined as pre-installed or loadable on-board software and/or office or PC-based software for particular operations of the Product and/or data), the warranty provisions contained herein shall expressly not apply.

**OBTAINING WARRANTY SERVICE.** Customer must follow the procedure dictated in the "WEHRLI SERVICE PROCEDURE" document. Firstly, the customer must contact the authorized distributor of Wehrli or Wehrli if Product was purchased directly from Wehrli. When deemed defective or "at fault" by Wehrli a part or component will be replaced whether it is an individual mechanical components, electronic components including cables, at no charge, using new or refurbished replacement parts. Replacements will be sent via DHL, Postal Express or similar courier. Wehrli will pay for shipping charges. The replacement component will be shipped as soon as reasonable possible. Wehrli shall, at its own discretion, decide on the place of performance for work under warranty. For Products forming part of a fixed installation, such place of performance shall be the site of such installation and Wehrli shall have the right to charge for additional costs for such services under warranty if the site of the Product is other than where the Product was originally installed or shipped. Any defective or "at fault" component will be the property of Wehrli and be shipped back to Wehrli at Wehrli expense for analysis. Wehrli shall assume all risk of loss or damage to the SCANNER while in transit.

**WARRANTY EXCLUSIVE.** Customer's sole remedy for breach of the warranty shall be the express warranty. The foregoing warranty is exclusive and is in lieu of all other warranties, terms or conditions, express or implied, either in fact or by operation of law, statutory or otherwise, including warranties, terms or conditions of merchantability, fitness for a particular purpose, satisfactory quality and non-infringement, all of which are expressly disclaimed.

Wehrli shall not be liable if the alleged defect or malfunction was caused by Customer's or any other person's misuse, neglect, improper installation, unauthorized attempts to open, repair or modify the Product, inadequate maintenance, disregard of operating instructions, excessive load or stress, normal wear and tear, or any other cause beyond the range of its intended use, by accident, fire, or other hazards, or other cause not due or attributable to Wehrli. This warranty does not cover physical damage to the Product or malfunctions resulting from the use of the Product in conjunction with any sort of ancillary or peripheral equipment and Wehrli determines that there is no fault with the Product itself.

**LIMITATION OF LIABILITY.** WEHRLI ALSO EXCLUDES ANY LIABILITY, WHETHER BASED IN CONTRACT OR TORT (INCLUDING NEGLIGENCE), FOR INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, OR PUNITIVE DAMAGES OF ANY KIND, OR COSTS OF PROCUREMENT OF SUBSTITUTE PRODUCTS BY CUSTOMER, OR FOR THE LOSS OF REVENUE OR PROFITS, LOSS OF BUSINESS, LOSS OF INFORMATION OR DATA, OR OTHER INFORMATION OR FINANCIAL LOSS ARISING OUT OF OR IN CONSEQUENCE WITH THE SALE, INSTALLATION, MAINTENANCE, USE, PERFORMANCE, FAILURE, OR INTERRUPTION OF THIS PRODUCT, EVEN IF WEHRLI & ASSOCIATES OR ITS DISTRIBUTORS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, AND LIMITS ITS LIABILITY TO REPLACEMENT, REPAIR, OR REFUND OF THE PURCHASE PRICE PAID, AT WEHRLI'S OPTION. THIS LIMITATION OF LIABILITY FOR DAMAGES WILL NOT BE AFFECTED IF ANY REMEDY PROVIDED HEREIN SHALL FAIL OF ITS ESSENTIAL PURPOSE.

**GOVERNING LAW AND PLACE OF JURISDICTION.** This Limited Warranty shall be governed by the laws of United States of America, excluding all conflict of laws principles and excluding the United Nations Convention on the International Sale of Goods dated 11 April 1980. The ordinary courts at the Wehrli registered office in Wilton, Connecticut shall be competent. Wehrli shall, at its sole discretion, also be entitled to take legal action in the competent courts at the Customer's place of business or domicile. With this Limited Warranty, Wehrli grants Customer specific legal rights which do not restrict any statutory consumer rights.

*Wehrli & Associates LLC  
5 Overidge Lane  
Wilton, Connecticut 06897 USA  
[www.wehrliaassoc.com](http://www.wehrliaassoc.com)*



## WEHRLI & ASSOCIATES

5 Overidge Lane, Wilton, CT 06897  
914.420.7017 info@wehrliaassoc.com

### SCANNER SUPPORT PRECEDURE

#### DEFINITIONS:

1. SELLER refers to Wehrli & Associates LLC.
2. BUYER refers to xxxxxx.
3. TST refers to SELLER technical support team – Greg Wehrli and Support Staff ([greg@wehrliaassoc.com](mailto:greg@wehrliaassoc.com); [scanner.support@gmail.com](mailto:scanner.support@gmail.com) )
4. CONTACTS refers to the one administrator and/or one technical employee designated by BUYER permitted to communicate with TST.
5. REQUEST refers to an operational question, problem or desired software change by CONTACTS.
6. BUSINESS DAY refers to any day other than Saturday, Sunday or any U.S. Holiday from 9:00 to 16:30 EST.

#### SUBMITTING REQUEST:

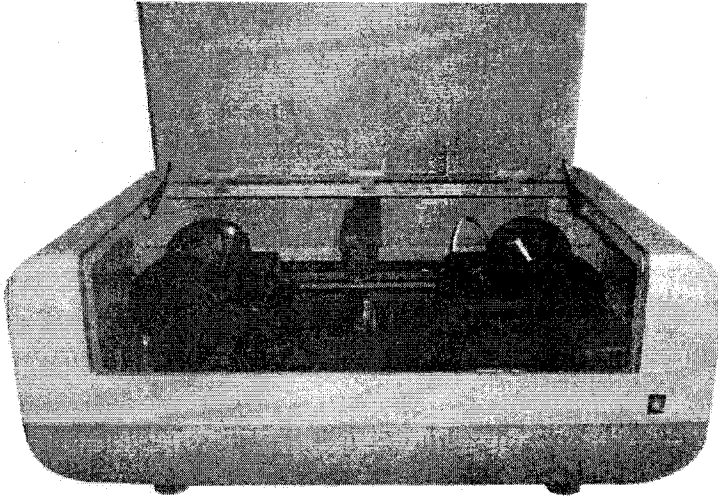
- a) CONTACTS shall submit a REQUEST via E-mail to TST. CONTACTS may follow up with telephone call.
- b) TST will make reasonable commercial efforts to respond via return E-mail acknowledgement of REQUEST within one (1) BUSINESS DAY. A REQUEST received outside the hours of operation shall be logged and processed the next BUSINESS DAY.
- c) SELLER reserves the right to determine, in its sole discretion, the characterization of a REQUEST – that means operational question, problem or desired software change. A desired software change will be considered by SELLER and determined by SELLER if such a change is beneficial to its overall commercial product line as well as when/how such a change will be implemented.
- d) TST will make every effort to determine and resolve a REQUEST via E-mail and remote access sessions. This process may require iterations of attempts. TST operates on a regular BUSINESS DAY schedule.
  - ✓ Email notification about remote internet control when necessary
  - ✓ Internet remote controlling and testing of the scanner.
  - ✓ Fix the problem whenever possible via remote access session.
- e) With each REQUEST, BUYER shall provide diagnostic information including but not limited to (i) describing the problem, the configuration, and environment; (ii) providing error messages, data or logs; (iii) providing digital images and (iv) communicating further via e-mail or internet remote access to answer questions and assist TST as appropriate in diagnosis.
- f) SELLER reserves the right to determine, in its sole discretion, the dispatching of a technician. If such a decision is made, a technician will be dispatched within 72 hours of that decision as long as flights and visa are available.



# WEHRLI & ASSOCIATES

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914.420.7017 info@wehriassoc.com

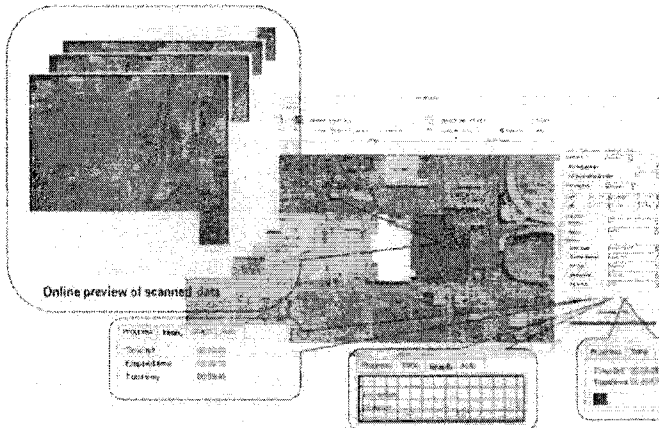
## RM-6 AutoScanner



- Windows 7 (32 or 64 bit) / Windows 10
- Scanner and PC communicate via USB ports
- User definable pixel depth (8,10,12 or 14 bits)
- Dust & scratch removal module using IR

### AutoScanner Key Features

- Roll film or individual frame scanning
- Automatic fiducial or image edge detection
- Real time tonal correction for best image quality
- Pressure plate & film lifted during film transport
- Motorized spools for automated film advancement
- Project management with multiple setups/jobs
- Auto-rewind of film when scan session complete
- File name count up or down; template
- Consistent high geometric accuracy; no resampling
- 14 bit radiometric resolution
- High optical resolution of 8 µms
- Real time scan resolutions 8, 12, 16, 20...128
- Best scan parameters automatically set by system
- Project management with multiple setups/jobs
- Cool LED illumination system
- Unsurpassed dynamic range of 3.4D



**SIMPLE USER INTERFACE**  
Single Window & Multiple Tabs  
Predefined Templates For Easy Management



# WEHRLI & ASSOCIATES

5 Overidge Lane, Wilton, CT 06897  
914.420.7017 info@wehriassoc.com

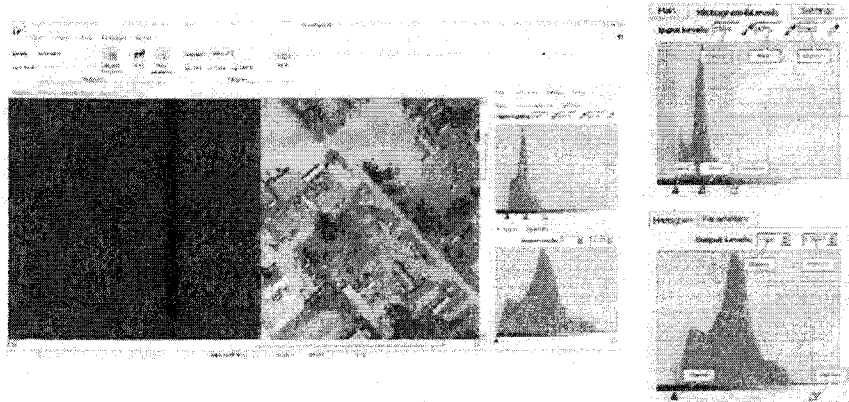
# RM-6 AutoScanner

## SCANNING SETUPS

Automatic Adjustment Tools e.g. AutoLevel or AutoColors

Preview For Histogram Adjustments

Input / Output Level Analysis

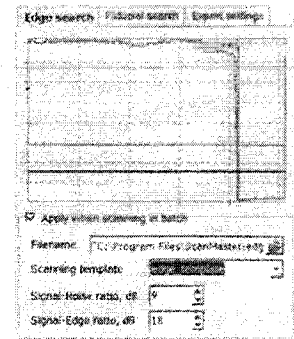
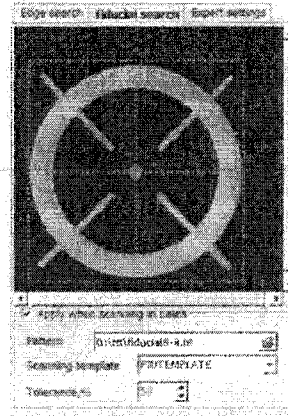
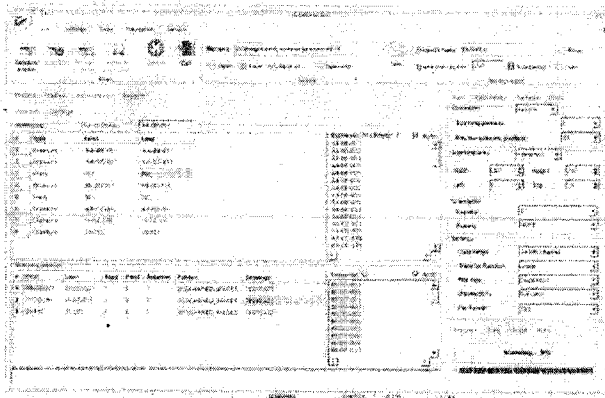


## AUTOMATIC SCANNING FEATURES

Wizards walk the operator step-by-step

Find Next Frame via Find Fiducial

Find Next Frame via Find Image Edge or Multiple Image Edges



Black & White (233x233 mm)		True Color (233x233 mm)	
Pixel Size	Scanning Time	Pixel Size	Scanning Time
8	8 min	8	14 min
12	6 min	12	10 min
16	5 min	16	8 min
20	4 min	20	7 min

1 - TYPICAL SCAN TIMES - REGARDLESS OF PIXEL DEPTH



## WEHRLI & ASSOCIATES

5 Overidge Lane, Wilton, CT 06897  
914 429-7017 info@wehriaassoc.com

## RM-6 AutoScanner

### Technical Data

Resolution	8µms optical (3175 ppi); 4, 8, 12, 16...128µms-real time by binning Other sizes by post process
Media	Roll Film (manual/automatic); Individual Frame Positive or Negative; B/W or Color transparency
Geometric Accuracy	±2µms RMSE <i>without resampling image data</i>
Geometric Precision	1µm resolution
Radiometry	14 bits/channel
Optical Density	0.001 to 3.7D
Dynamic Range	3.4D
Illumination	Computer controlled LED - 30000 hours
Sensor	Tri-linear CCD, Sony 5300; Fully compensated
Scanning Range	Roll Unit 260x240mm; Cut Sheet 260x260
Image Format	Tiled TIFF, Strip TIFF, TIFF 6.0 JPEG, JPEG2000 Output 8/10/12/14 bits (ScanMaster FULL)
Operating System	Windows 10™, W7™ (32 or 64 bit)
Dimensions	0.83x1.10x1.00 M
Weight	165 Kg.

**From:** [Ruth Goller](#)  
**To:** [Goller, Ruth](#)  
**Subject:** H-11 Procurement Request - Recommended: PR2019-09144 CRM:0327289  
**Date:** Thursday, August 29, 2019 4:18:42 PM

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Your H-11 procurement request submitted on 8/29/2019 2:29 PM has been recommended by RCIT. At this time, you will need to complete your departmental procurement process.

**H-11 Procurement Number:**  
PR2019-09144

**Requested Purchase:**  
RM-6 AUTOSCANNER

Sincerely,  
The RCIT H-11 System