

Alternative technologies in creating access archival information



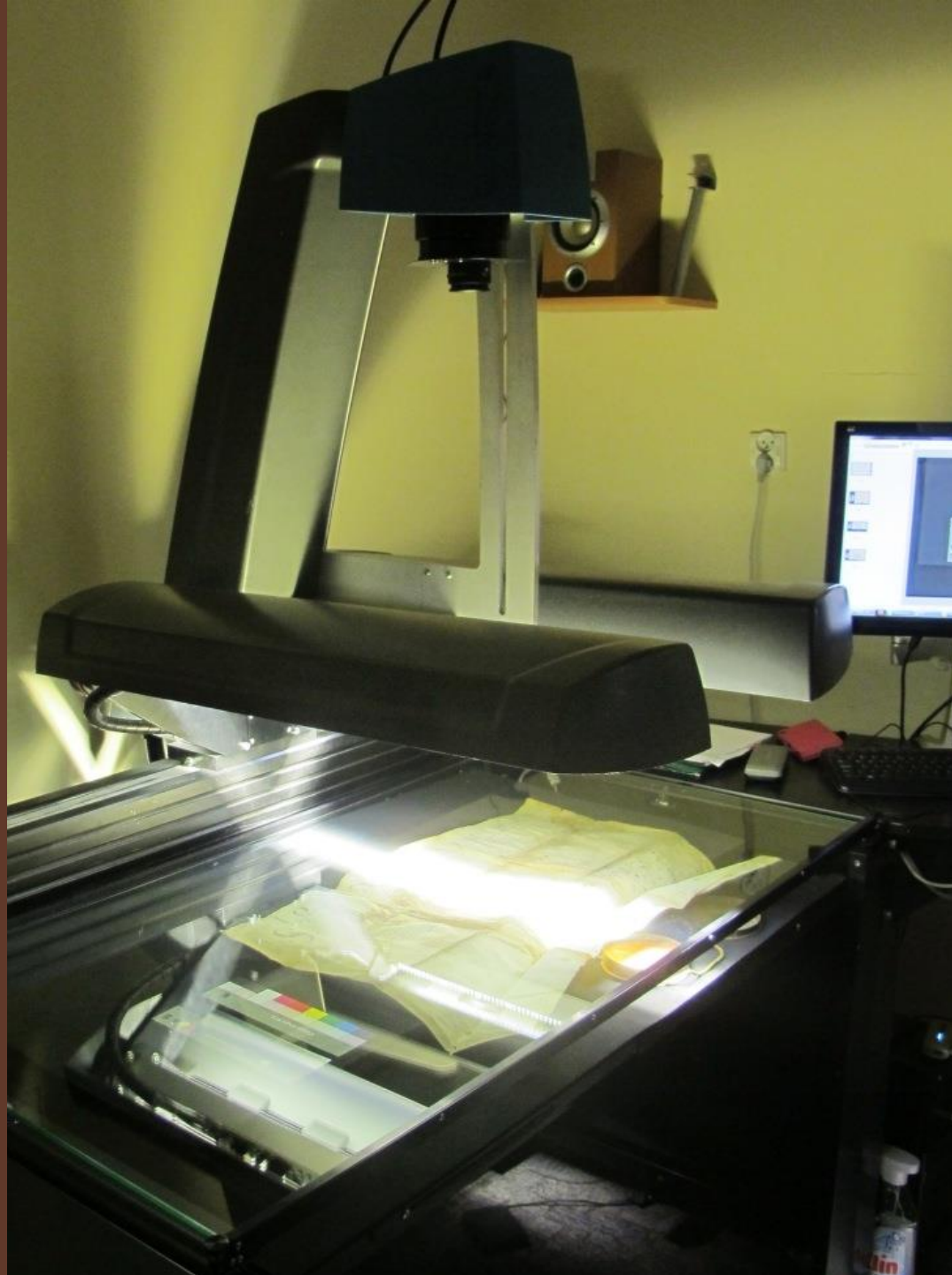
Archiwum Główne Akt Dawnych
ul. Długa 7, Warszawa

What's old what's new?

1. Digitization process routine in paper documents scanning
2. New experiences in parchment documents digitization with the selected standard scanner SupraScan Quartz A1 HD (i2s DigiBook)

[illegible][illegible]



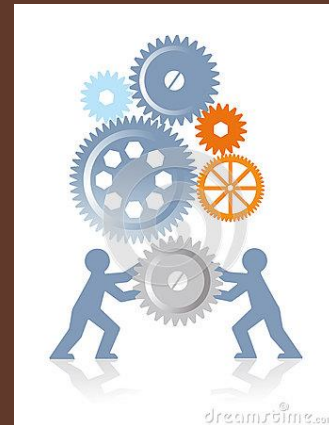




COOPERATION

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University of Science and Technology
in Kraków



Polynomial Texture Maps (PTM)

Reflectance Transformation Imaging (RTI)

https://www.youtube.com/watch?v=ktgwt_Gddfg





Automated sphere for registration of images

Digital photo camera

- Manual setting
- macro lens

57 diod LED (WS2812)

- 30 cm (objects up to 15 cm)
- Possible capture without dark room
-

controller

- microcontroller Arduino
-

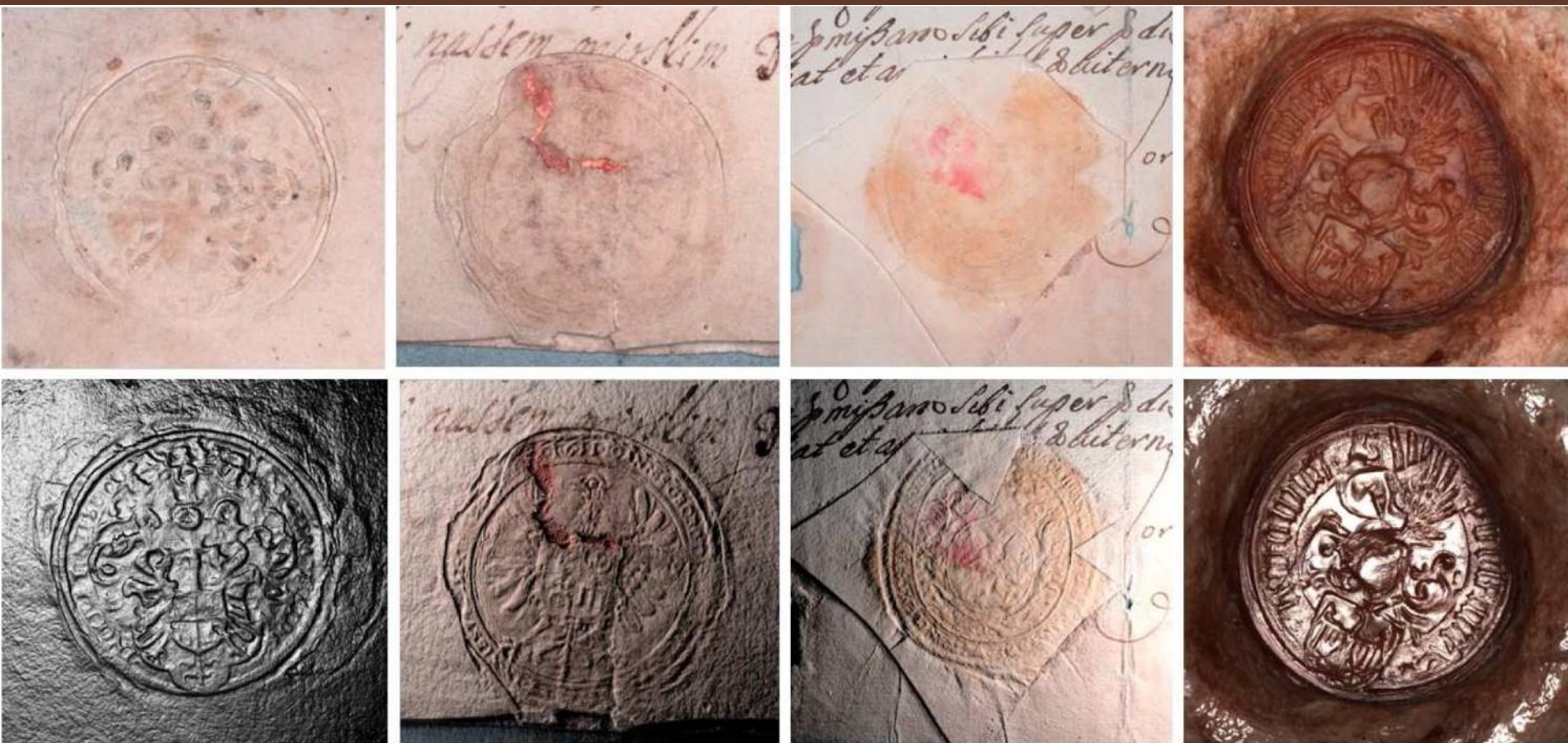
power

- 5V, 500 mA, USB



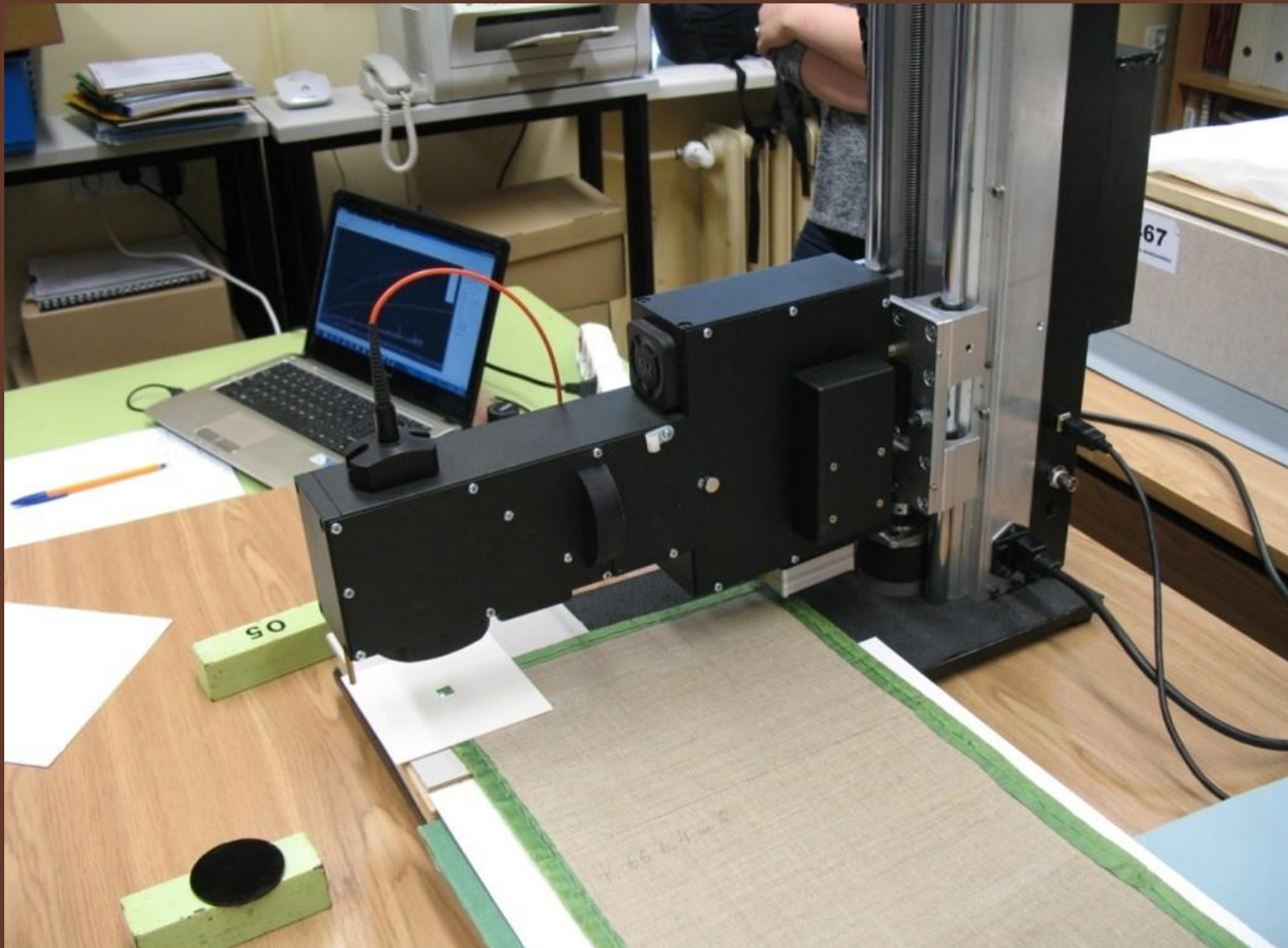


- Registration time below 1 minute
- Further data analyses and generation of the final PTM file (.ptm i .rti) around. 6 min



Rys. 1. Obrazy PTM dla obiektów z zasobów AGAD, rząd górny – oświetlenie prostopadłe, rząd dolny – uczytelnienie tekstury metodami dostępnymi w programie *PTMViewer*.

Light resistance of the archival documents



Badanie mikrofedometrem

Test- 10 minutes, with light source of around 12 Mlx, equals 2 Mlxh



ISO Standard R 105

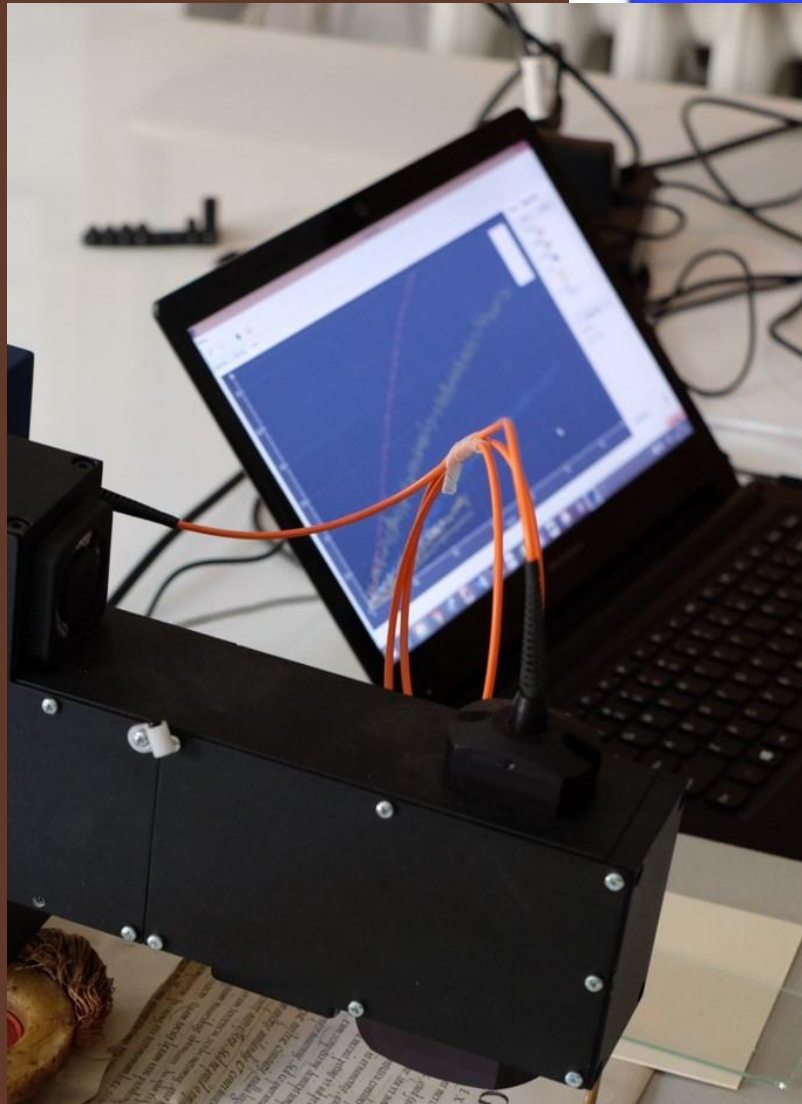
Unexposed Test Strip



Exposed Test Strip



Score = Blue Wool 7



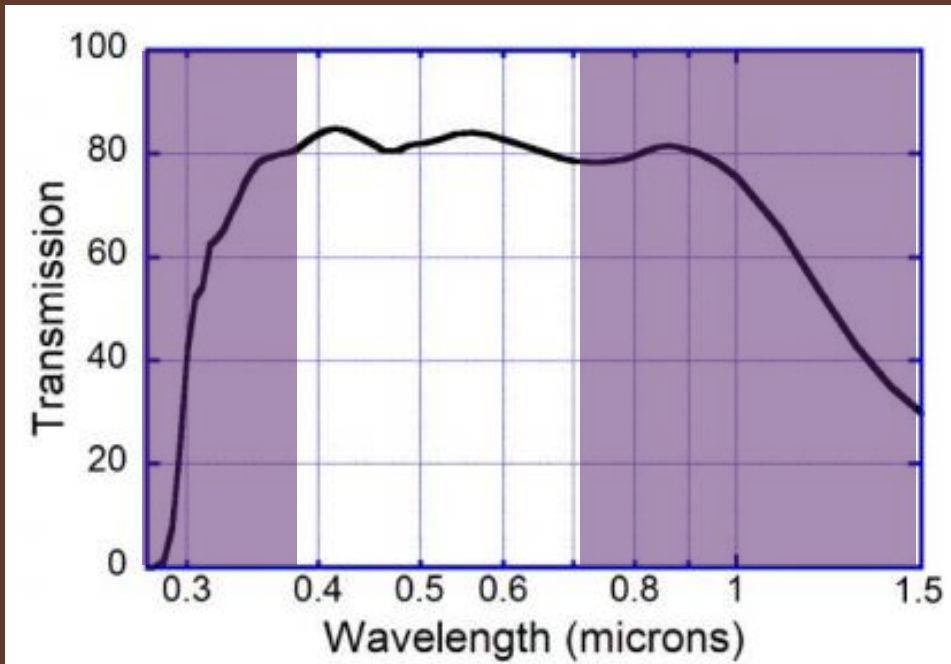






Going multispectral

Matrix of the camera



Special lenses:
IR – problems with *hot-spots*
UV – low transmission of UV
through the optical glass

Declaration of Independence

“our fellow subjects

-cutigera



[Faint handwritten text from folio 10v, likely bleed-through from the reverse side.]

[Faint, illegible handwritten text from a manuscript page.]

[Faint, illegible handwritten text visible through the paper.]

Handwritten text, likely a letter or document, written in a cursive script. The text is heavily obscured by a large, dark, irregular stain or shadow that covers the majority of the page. The visible portions of the text are faint and difficult to decipher. The right edge of the page shows a vertical crease and some lighter, possibly damaged or torn, material.

[illegible]



z Jędrzejowic
e a pismowat
w d. 10. 10. 1804
Generał Rhenstrad,
by dy. partymont towar
legie zas jako to wojsko rogi
an dawy na przedzi prowadzić jako
en. gdy kupcy kupować poczeki do wrota
rabunkowe towary płacić nie chcieli y za
miedzy ktorymi Jan Kraupowa ze igielna star
sto fitych talerów frosu zapłata y w d. 10. 10. 1804
w d. 10. 10. 1804 kupcy płacić nie chcieli rogi
y bardzo było pomiędzy y przynajmniej
w d. 10. 10. 1804 zas protestantów
w d. 10. 10. 1804 krowody chymie
w d. 10. 10. 1804

Fraunhofer IPK

Institute for Production Systems and Design
Technology



ePuzzler

Vneynov, 1525



AGAD

www.archiwa.gov.pl

C e n t r a l n e
L a b o r a t o r i u m
K o n s e r w a c j i
A r c h i w a l i ó w

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