

SPECIAL EFFECTS MAKEUP

2021.9

The production of Special effect makeup (hereinafter referred as SEM) takes much time and energy. It also means a high requirement for the personal experience of makeup artists, and for the endurance of actors. For this reason, I conceived a product to help SEM artists to set makeup easily, thus improving the makeup efficiency.

BACKGROUND



I have been sitting here for three hours, **how long** do I have to endure



Will such heavy cosmetics be very **harmful** to my skin?

Types of special effrct make up



I SEM based on molding



II ordinary SEM



consume 5-10 hours

SEM can shape actors to be more in line with the original characters in dramas. Setting the final makeup is a time-consuming and laborious work, which is also a great "torture" for the actors.

The process of special effrct make up

The whole process of SEM consumes much time, money and efforts. Through molding, a female model can be turned to an old man wearing SEM and full of wrinkles

Step 1: Make a model based on the model's mold which is already done

Step 2: Draw spots on the model

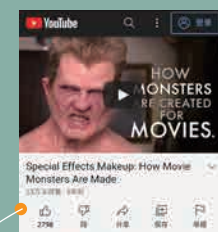
Step 3: Put the model to actor's face with glue, make a transition with brush between the joints

Step 4: Model wear dentures and wig

Step 5: Model wear colored contact lenses

Step 6: Model wear costume and accessories

Step 7: Take final makeup photos



Take the Youtube video as an example

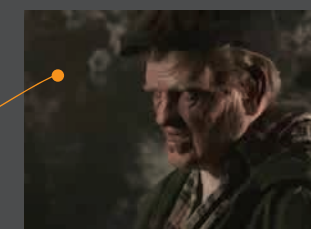
SUMMARY

SEM is a time-consuming and laborious work, which is a great test to the actor's patience.

OBSERVATION

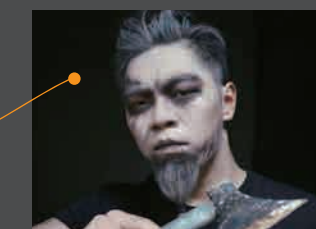
Observe the special effects makeup artist

Works of experienced SEM artists



VS

Works of SEM beginners



The difference lies in the personal experience of the makeup artists to complete the lifecasting and processing work

Harms special effects cosmetics bring to the skin?

SEM means heavy makeup, complicated makeup steps and the presentation of special effects.



Alcohol glue



blood paste



vulcanized latex



powder paste



color paste



sealing agent

SEM's harm to actor's skin

preservatives, fluorescent agents and heavy metal components contained in the cosmetics harm the actor's skin and face

SUMMARY

Certain components contained in SEM cosmetics can do harms to actor's skin; the production of SEM, such as skin wax for burn makeup and sticky beard, can also make models feel uncomfortable

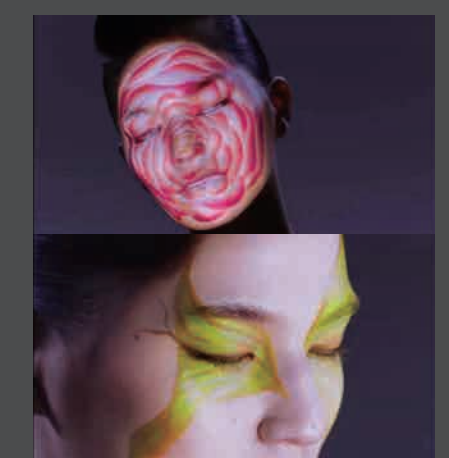
DESIGN GOAL

How to save time and energy, while not harming actor's face and not affecting the makeup?

INSPIRATION



Disney light show



Real time face tracking&Projection Mapping

Why not apply the technology of Disney light show to SEM makeup-setting?

CONCEPT DESIGN



Scan the actor's face, design and modify SEM based on actor's face so as to improve efficiency

IDEATION

Combine 3D scan technology and face-kneading system to cast SEM over actor's face

3D scanner

3D scanner is for scanning actor's face to synthesize a virtual face

APP

Face-kneading app is for designing actor's makeup in the computer so as to set the final modelling

The Shoulder Carry Device

Machine for projection is easy to take on shoulder

PAD & Computer

IPAD or computers make modifications to the makeup at any time

Projector Device

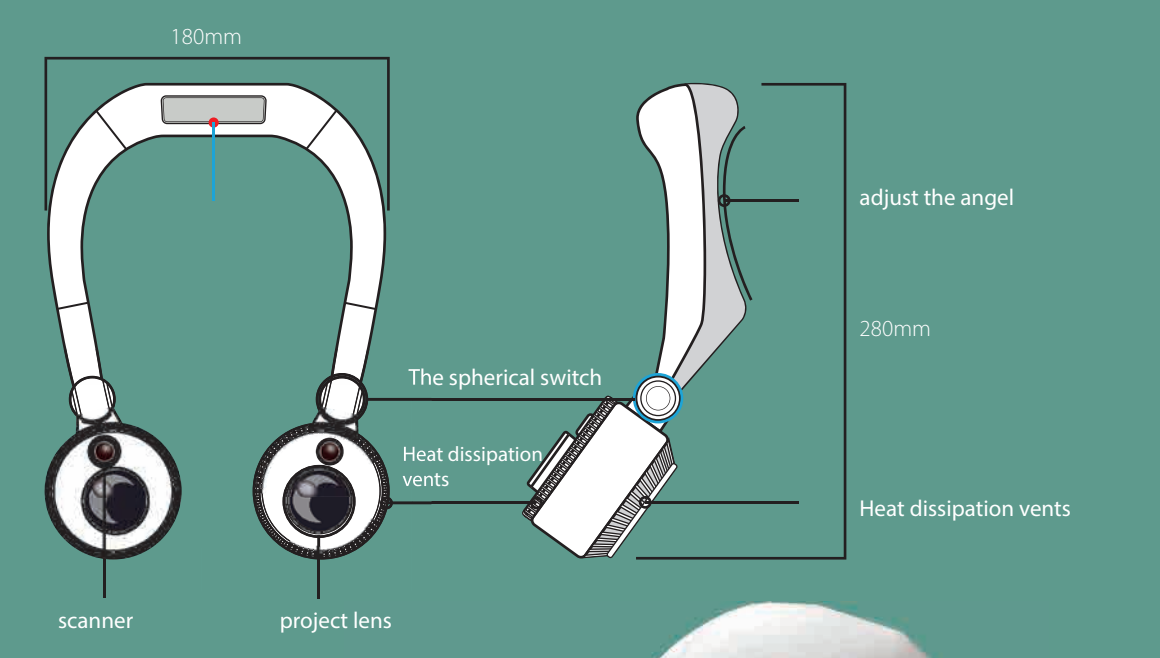
Makeup effect is directly casted over actor's face

PROTOTYPE

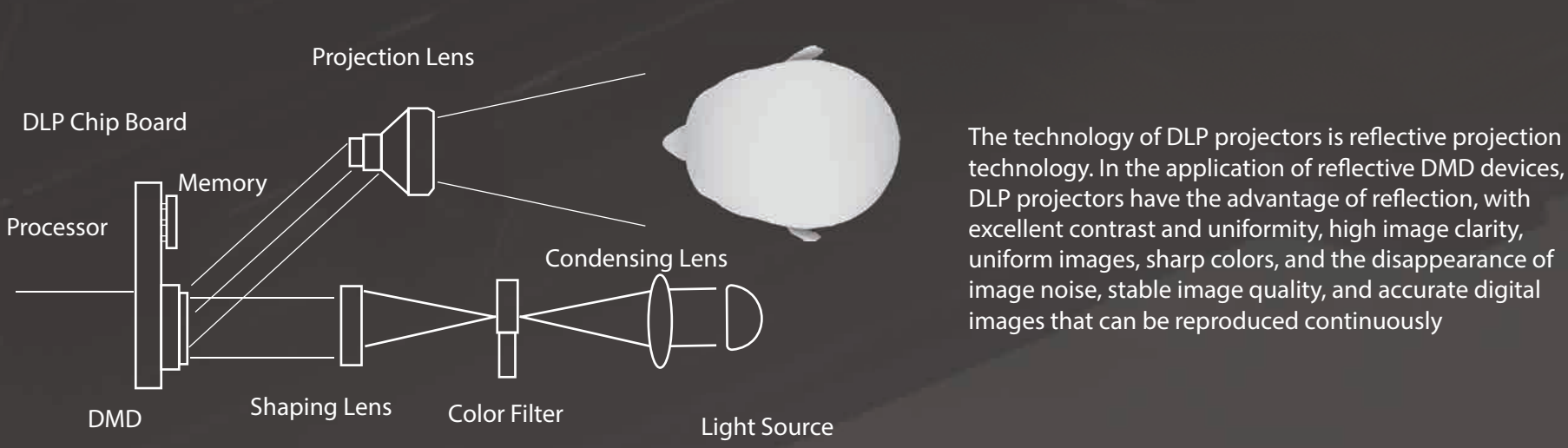
I used ultra-light clay, iron wire and bamboo sticks to make a physical model on the model's neck to test



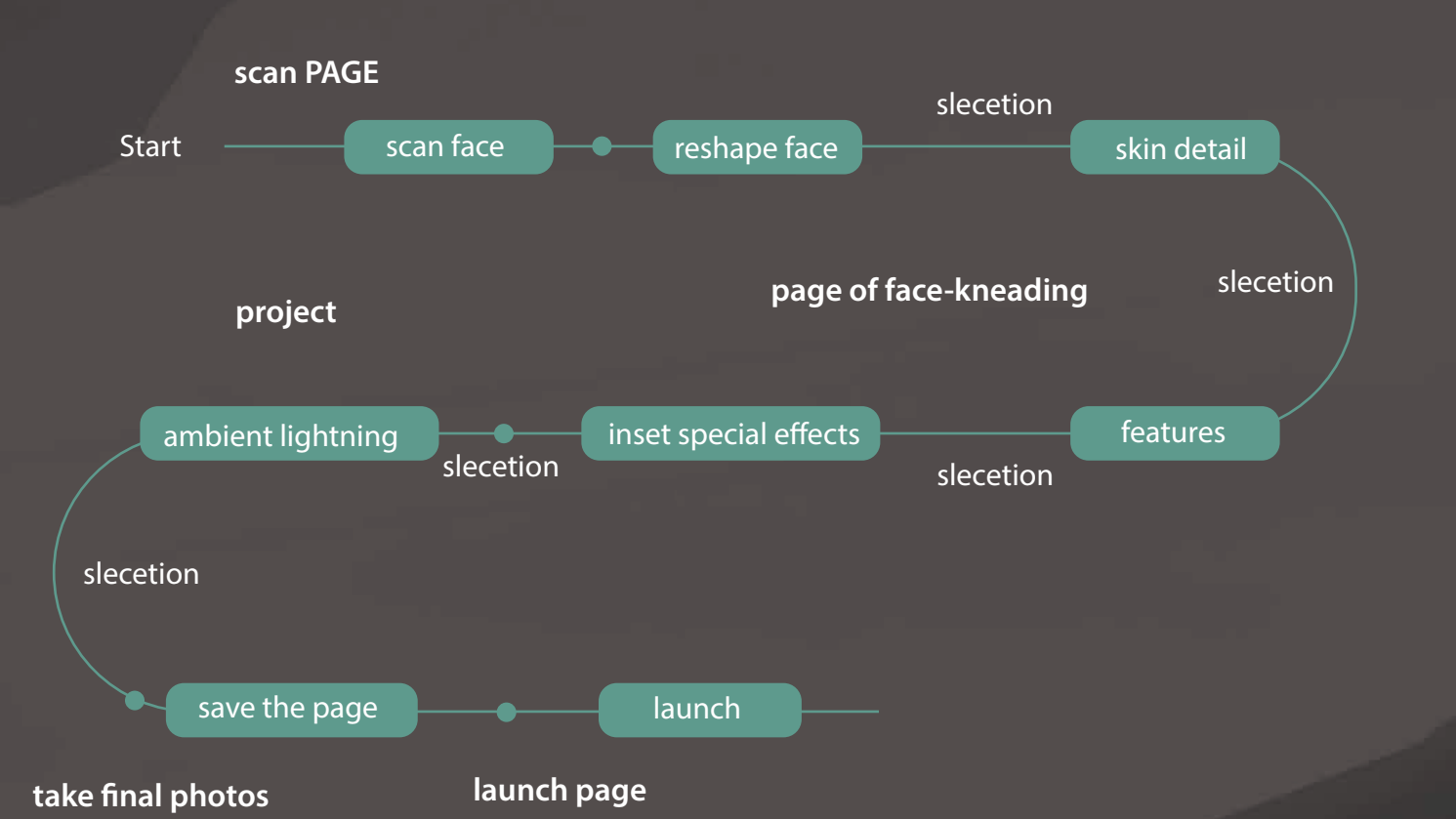
PHYSICAL PRODUCT DESIGN



TECHNOLOGY SURPORT

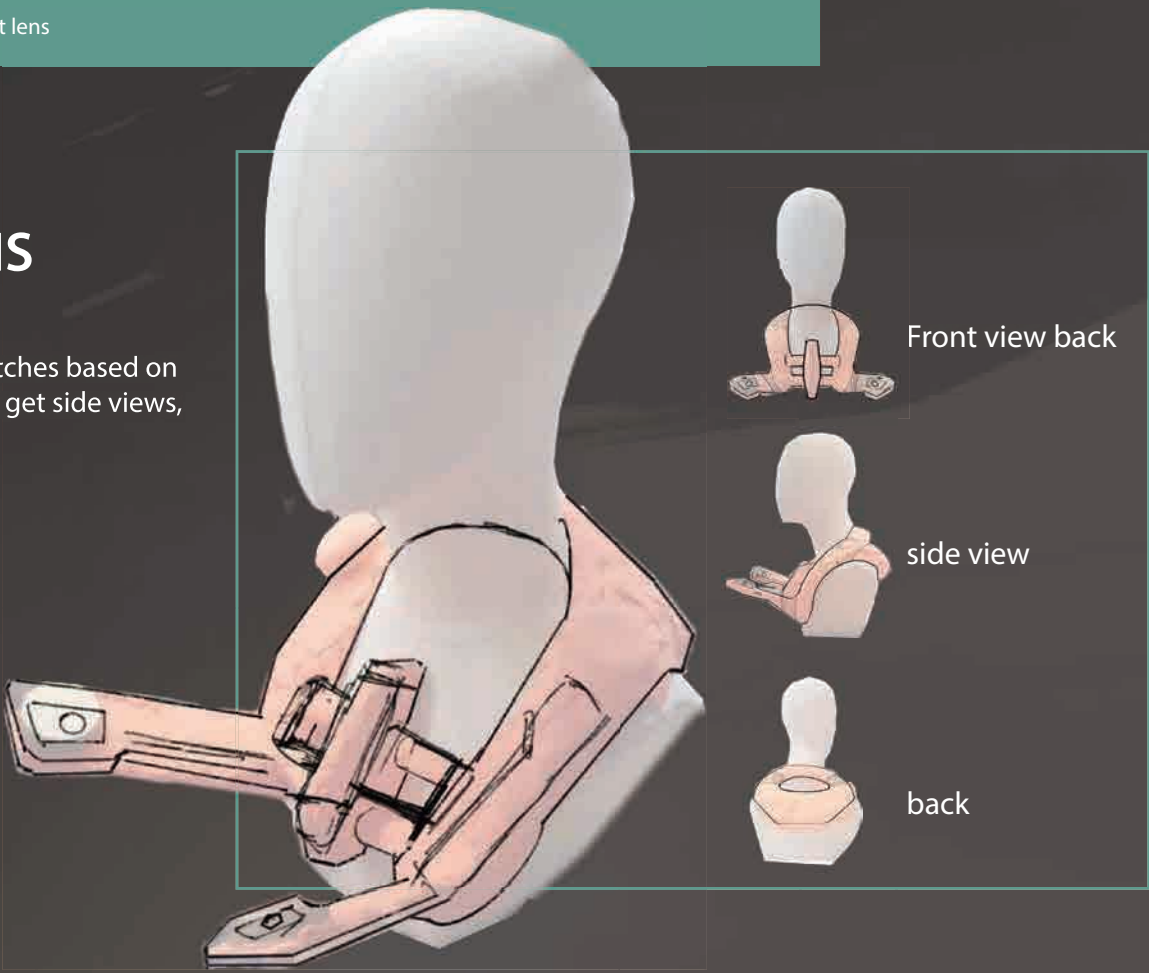


WORK FLOW



SKEETCHS

Draw product sketches based on prototype testing, get side views, front views, etc.



RENDERING

Design instruction

The scanner is used to scan the actor's face into the software, and the makeup effect will be directly projected onto the actor's face in real time through the face pinching device. The shoulder resistance device is easy to carry.

